| | | | | | | | STAGE | | | |
|----------|--------|-------------------|------------------|--------------------------|----------|-----------|-------------------|---------------------------|--------------------|--|
| | | | PROJECT | | | | DOC. NO. | | | _ |
| | | | 1054 | | | | | | | _ |
| | | | AREA | | | | PAGE NO. | 3 | OF 8 | |
| | | | DOCUMENT | DATA SHEET FOR 11kV V | FD | | | F | Rev. O | |
| 1 | MANU | FACTURER: | | | SERVICE | | | | EQUIPMENT NO.: | OTY: |
| 2 | | | | | | | | | SIZE: | |
| 3 | | | DESCRIPTION | | | | SPECIFICATI | ON REQUIREMENT | | VENDOR'S |
| 4 | Δ | | CIFICATION & ST | | <u> </u> | | | | | CONFIRMATION/INFORMATION |
| 5 | 1 | SPECIFICATION | | | | 999-ELE | -SPC-0005 | | | |
| 6 | | | | | | | Spec | ification for Variable Fi | equency Drive(VFD) | |
| 7 | 2 | MANUFACTURING | STANDARD | | | 999-ELE | -SPC-0005 2.1 | | | YES |
| 8 | 3 | QUANTITY | | | | SEE NO | TE 15 | | | SEE NOTE 15 |
| 9 | 4 | TYPE OF DRIVEN E | EQUIPMENT | | | SEE NO | TE 15 | | | SEE NOTE 15 |
| 10 | | | | | | | | | | |
| 11 | в | SERVICE / SITE CO | NDITION | | | | | | 20010 | |
| 12 | 1 | DESIGN AMBIENT | TEMP. (MAXIMUI | M/ MINIMUM) | | 55°C/-5 | °C(40°C FOR TE | IE AIRCONDITIONED | ROOM) | 55°C / -5°C(40°C FOR THE AIRCONDITIONED ROOM) |
| 13 | 2 | MECHANICAL DES | IGN TEMPERATUR | RE | | 80°C | | | | 80°C |
| 14 | 3 | ALTITUDE ABOVE | M.S.L. | | | LESS TH | IAN 100M | | | LESS THAN 100M |
| 15 | 4 | MIN-MAX RELATIVE | E HUMIDITY | | | 25% - 87 | % | | | 25% - 87% |
| 16 | 5 | SEISMIC ZONE | | | | 2A | | | | 2A |
| 17 | 6 | LOCATION (INDOO | R / OUTDOOR) | | | VFD IN A | AIRCONDITIONE | D ROOM | | VFD IN AIRCONDITIONED ROOM |
| 18 | 7 | ZONE OF HAZARD | , GAS GROUP , TE | EMP CLASS | | SAFE AF | REA | | | SAFE AREA |
| 19 | | | | | | | | | | |
| 20 | C 1 | INPUT SUPPLY | | | | 3 | | | | ^ |
| ∠1 22 | 1 2 | NOLTACE | | | | 3 | 09/ | | | 3 |
| 22 | 2 | VOLTAGE | | | | 11KV ± 1 | 0% | | | $11kV \pm 10\%$ |
| 23 | 3 | PREQUENCY | 2 | | | SURZ ± | | | • | 50HZ ± 10% |
| 24 | 4 | SYSTEM EARTHING | 6 | | | NEUTRA | L EARTHING RE | -SISTOR 6.36KV / 100 | 9 | NEUTRAL EARTHING RESISTOR 6.36kV / 100A |
| 25 | 5 | MINIMUM SHORT (| CIRCUIT CURRENT | TAT 11kV | | 25 kA | | | | 25 kA |
| 26 | 6 | MAXIMUM SHORT | CIRCUIT CURREN | T AT 11kV | | 31.5 kA/3 | Bs | | | 31.5 kA/3s |
| 27 | 7 | HARMONICS AT TH | HE LINE SIDE | | | TO BE L | IMITED IN COM | PLIANCE WITH IEEE 5 | 519 | TO BE LIMITED IN COMPLIANCE WITH |
| | - | | | | | | | | | IEEE 519 |
| 28 | 8 | DESIGN SHORT CI | RCUIT FOR WITH | STAND | | 31.5 kA I | FOR 3 SEC | | | 31.5 kA FOR 3 SEC |
| 29 | D | | INTE | | | | | | | |
| 31 | 1 | RUNNING TEMP. | ENTS | | | | | | | |
| 32 | 1.1 | VFD PANEL ROOM | | | | 40°C | | | | 40°C |
| 33 | | MAXIMUM AMBIE | NT TEMPERATUR | E | | 55°C, (C | APABLE of WOR | KING for 2 HOURS | | 55°C, (CAPABLE of WORKING for 2 |
| | | | | | | | | | | HOURSWITHOUT HVAC) |
| 34 | | | | | | | | | | |
| 35 | 1.2 | VFD TRANSFORMER | | | | | ENTILATION REG | QUIRED | | ONLY VENTILATION REQUIRED |
| 37 | 2 | | ANSEER SWITC | Ч | | YES | | | | YES |
| 38 | 4 | NUMBER OF PULS | ES - SUPPLY SIDE | MOTOR SIDE | | 36 PULS | E / 36 PULSE | | | 54 PUI SE / 54 PUI SE |
| | - | 0010101000 | | | | VE0 () | | ` | | 54106567 5410656 |
| 29 | D | COMMUNICATION | WITH DCS (TES / | NO) | | TES (II | ardwired contacts |) | | YES (hardwired contacts) |
| 40 | 6 | COMMUNICATION | WITH EICS (YES / | NO) | | YES (SE | ERIAL LINK MOD | BUS RTU PROTOCO | _) | YES (SERIAL LINK MODBUS RTU |
| 41 | 7 | DRIVE TRANSCOR | | | | | 0F | | | PROTOCOL) |
| 42 | 8 | | | | | 0.85 | - | | | DRI ITPE |
| 72 | 5 | | | TORQUE/POWER OR | | 0.00 | | | | 68.0 |
| 43 | 9 | COMBINATION) RE | QUIRED (YES/N | 0) | 1 | YES | | | | YES |
| 44 | 10 | SPEED RANGE | | | | 30%~10 |)% | | | 1%~150% |
| 45 | 11 | LINE INPUT BREAK | (YES / NO) | | | NO (BY | SWITCHGEAR V | ENDOR) | | NO (BY SWITCHGEAR VENDOR) |
| 46 | 12 | IP RATING | | | | IP20 (DC | OR OPENED) | | | IP20 (DOOR OPENED) |
| 47 | 13 | NOISE LEVEL | | | | <85 DB a | at 1m | | | <85 DB at 1m |
| 48 49 | 14 | "FLYING RESTART | POSSIBLE (YES | / NU) | | YES | | | | Meet the Need |
| 50 | E | OTHER REQUIREM | IENTS | | 1 | | | | | |
| 51 | 1 | ANTICONDENSATI | ON HEATERS (YES | S / NO) | | YES | | | | COMPLY |
| | 2 | PREFERRED COOL | ING SYSTEM FOR | R VFD (AIR / DM WATER CL | OSED | AIR | | | | |
| 52 | | LOOP) | | | | | | | | COMPLY |
| 53 | 3 | CABLE ENTRIES (B | BELOW / ABOVE) | | | BELOW | (WITH GLAND P | LATE) | | COMPLY |
| 54 | 4 | POWER CABLE LE | NGTH FROM VFD | PANEL TO MOTOR | | (Note-18 | 5) | | | COMPLY |
| 55 | 5 | PAINTING TYPE AN | ND SHADE | | | RAL7032 | | | | COMPLY |
| 57 | 7 | OTHER STUDIES/A | NALYSIS | ED TO EAGH DRIVE) | | RESON | NCE STUDY TO | | | |
| | | | | | | CONSID | ERING LV PF IM | PROVEMENT | (BY VENDOR) | see attached |
| 58 | | | CAPAC | TANCE WITH SERIES IND | UCTANCE | | OR) | | | Brovideo queidence of 2 |
| | | | 0/11 AC | | | | | | | Frovides avoidance of 3 resonance point frequencies |
| 59 | 8 | CONTROL SUPPLY | , | | | 230V AC | (OR 110V DC) | | | 230V AC |
| | 9 | AUX. AC POWER S | UPPLY | | | 230V, 1F | PH, 50Hz ((FOR I | NTERNAL LIGHTING | & SPACE | COMPLY |
| | | | | | | HEATER | 2) | | | COMPLI |

| | | | | | STAGE | | |
|----|------------------------------------|---|-----------------------|-----------|----------------|--------------------------------|--------------------------|
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| | | AREA | | | PAGE NO. | 4 OF 8 | |
| | | DOCUMENT | DATA SHEET FOR 11kV V | FD | | Bey 0 | |
| 1 | | | | SED//ICE: | | | OTV: |
| 2 | MANOTACTORER. | | | SERVICE. | | SIZE: | Q11. |
| 3 | | DESCRIPTION | | | SPECIFIC | ATION REQUIREMENT | VENDOR'S |
| 5 | | | | | | | CONFIRMATION/INFORMATION |
| 4 | F REMOTE INDICATIONS A | ND CONTROLS | | (| VOLTAGE FREE C | CONTACTS). | |
| 5 | 1 MOTOR 'ON' SIGNAL TO | O UCP | | | YES | - | COMPLY |
| 6 | 2 MOTOR 'OFF' SIGNAL T | TO UCP | | | YES | | COMPLY |
| 7 | 3 MOTOR 'AVAILABLE' SI | IGNAL TO UCP | | | YES | | COMPLY |
| 8 | 4 MOTOR 'FAULT' SIGNA | L TO UCP | | | YES | | COMPLY |
| 9 | 5 INPUT SIGNALS FROM | REMOTE TO VFD: | | | YES | | COMPLY |
| 10 | 6 LOCAL / REMOTE (POT | TENTIAL FREE CON | TACT) FROM UCP | | YES | | COMPLY |
| 11 | 7 START SIGNAL (POTEN | NTIAL FREE CONTA | CT) FROM UCP | | YES | | COMPLY |
| 12 | 8 STOP SIGNAL (POTEN | TIAL FREE CONTAC | T) FROM UCP | | YES | | COMPLY |
| 13 | 9 EMERGENCY STOP(PC | DTENTIAL FREE CO | NTACT) FROM UCP | | YES | | COMPLY |
| 14 | | | | | | | |
| 15 | G TESTING | | | | | | |
| 16 | 1 ROUTINE TESTS | | | | | | |
| 17 | INSULATION | | | | YES | | COMPLY |
| 18 | LIGHT LOAD AND OPERA | TION | | | YES | | COMPLY |
| 19 | CHECKING OF AUXILIARY | DEVICES | | | YES | | COMPLY |
| 20 | CHECKING THE PROPER | TIES OF THE CONT | ROL EQUIPMENT | | YES | | COMPLY |
| 21 | CHECKING THE PROTECT | TIVE DEVICES | | | YES | | COMPLY |
| 22 | CONTINUITY TEST FOR W | VIRING | | | YES | | COMPLY |
| 23 | OPERATION/FUNCTIONAL | L TESTS | | | YES | | COMPLY |
| 24 | CHECKING OF INTERLOC | KS | | | YES | | COMPLY |
| 25 | IR/HV TEST ON POWER/C | CONTROL CIRCUIT | | | YES | | COMPLY |
| 26 | | | | | | | |
| 27 | | | | | VEC | | |
| 28 | | TION | | | YES | | COMPLY |
| 29 | LIGHT LOAD AND OPERA | TION | | | TES VES | | COMPLY |
| 21 | CURRENT SHARING | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | VES | | COMPLY |
| 32 | | | | | VES | | COMPLY |
| 33 | POWER LOSS DETERMIN | | | | VES | | |
| 34 | TEMPERATURE RISE | | | | VES | | COMPLY |
| 35 | CHECKING OF AUXILIARY | DEVICES | | | VES | | COMPLY |
| 36 | CHECKING THE PROPER | TIES OF THE CONT | ROL EQUIPMENT | | VES | | COMPLY |
| 37 | CHECKING THE PROTEC | TIVE DEVICES | | | YES | | COMPLY |
| 38 | ON LOAD TEST | | | | YES | | COMPLY |
| 39 | | | | | .20 | | |
| 40 | H ADDITIONAL REQUIREME | ENTS | | | | | |
| | | | | | SEE MEC | CHANICAL EQUIPMENT VENDOR DATA | |
| 41 | 1 LUAD STARTING TIME | | | | (TBA) | | COMPLY |
| | | | | | AS PER M | MECHANICAL | |
| 42 | 2 GD ² VALUE (LOAD + MO | OTOR) | | | EQUIPME | ENT | COMPLY |
| | | | | | VENDOR | DATA (TBA) | |
| | | | | | AS PER M | MECHANICAL | |
| 43 | 3 MOTOR AND LOAD TO | RQUE - SPEED CUR | IVES | | EQUIPME | | COMPLY |
| 14 | | | | | VENDOR | DATA (IDA) | |
| 45 | | | | | | | I |
| 46 | | | | | | | l |
| 47 | | | | | | | + |
| 48 | | | | | | | + |
| 49 | | | | | | | + |
| 50 | | | | | | | |
| 51 | | | | | | | |
| 52 | | | | | | | 1 |
| 53 | | | | | | | 1 |
| 54 | | | | | | | |
| 55 | | | | | | | |

| | | | | | | STAGE | Detai | led Design | | |
|----|------------|------------------|--------------------|------------------------|----------|---------------|----------------------|-----------------------|--------------|-----------------------------|
| | | | PROJECT | | | DOC. NO. | | | | |
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| | | | AREA | | | PAGE NO. | 5 | OF 8 | | |
| | | | DOCUMENT | DATA SHEET FOR 11kV VF | FD | | F | Rev. 0 | | |
| 1 | MANUFACT | URER: | | | SERVICE: | | | EQUIPMENT NO.: | | QTY: |
| 2 | | - | | | | | | SIZE: | | |
| 3 | | | | | INFO | ORMATION BY V | ENDOR | | | |
| 4 | A G | GENERAL | | | | | | | | |
| 5 | 1 N | MAIN VFD SOFT S | STARTER SYSTEM | VENDOR | | | LS ELECTR | IC(DALIAN)CO.,LTD | | |
| 6 | 2 N | MODEL NO. FOR V | /FD SOFT STARTE | R | | | LSMV-M100 | 00Z 100F100-1600, LSM | MV-M1000Z 10 | 0F100-2800 |
| 7 | 3 A | APPLICABLE COD | E / STANDARDS | | | | IEC61800 | | | |
| 8 | 4 11 | NPUT POWER SU | IPPLY RATING: | | | | | | | |
| 9 | a) ' | VOLTAGE | | | | | 11KV | V | ± 10 | % |
| 10 | b) | FREQUENCY | | | | | 50 | Hz | ± 10 | % |
| 11 | 5 C | COMPONENT MAK | E AND COUNTRY | OF ORIGIN: | | | | | | |
| 12 | - C | ONVERTER | | | | | China | | | |
| 13 | - N | NOTOR | | | | | (*) | Note-14 | NO I | VOTOR INFORMATION |
| 14 | - R | REACTOR / FILTER | RS | | | | (*) | | NO REACTO |)R / FILTERS IN VFD |
| 15 | - D | KIVE I KANSFOR | | | | | (*) | | NO DRIVE T | RANSFORMER IN VFD |
| 16 | о H | ILAT LUSS AT MA | AXIMUM LOAD FOR | HVAC DESIGN | | | | 50 KW(1250kW) | 90 KW(2200 | kW) |
| 1/ | 7 N | NEAREST SERVIC | E LUCATION | | | | | | | |
| 18 | D 7 | | | | | | | | | |
| 20 | | | | | | | 0.40/ 4500/ | | 1 | |
| 20 | | DPERATIONAL SP | | | | | 0.1%~150% | | | |
| 21 | 2 1 | | | | | | 04A | 140.9AA | | |
| 23 | 3 D 4 H | | | | | | NO | | | |
| 24 | 5 5 | SEPARATELY MOL | INTED REACTOR F | REQUIRED (YES / NO) | | | NO | | | |
| 25 | 6 C | COOLING SYSTEM | | | | | Air Cooling | | | |
| 26 | 7 P | POWER FOR ACC | ELERATION OF LO | AD TO RATED SPEED | | | related to load | kW | | |
| 27 | 8 V | SDS CONTROL P | ARAMETER (SPEE | D / TORQUE / POWER) | | | Speed | | | |
| 28 | 9 C | CRITICAL SPEED: | | -,, | | | | | | |
| 29 | - F | IRST CRITICAL S | PEED | | | | Can be set | RPM | Skip free | uency band set in parameter |
| 30 | - S | ECOND CRITICAL | L SPEED | | | | Can be set | RPM | Skip freq | uency band set in parameter |
| 31 | 10 R | RUNNING UP TIME | E MOTOR | | | | 0-3200S (adjustable) | sec (Note-14) | | |
| | | | | | | | | | | |
| 32 | 11 | OTAL RUNNING-U | UP TIME FOR VED | | | | Can be set | SEC | (| continuous operation |
| 34 | 12 IV | AX SOUND PRES | | | | | 800B | UBA | | |
| 35 | 13 I | | POSSIBLE (TES / | 110) | | | 100000 | | | |
| 36 | 15 N | | | | | | 60 minutes | | | |
| 37 | 16 A | | THE VED SYSTEM | | | | 98% | | | |
| 38 | 17 E | | ME OF ELECTRON | IC COMPONENTS | | | 15 | YEARS | | |
| 39 | 18 E | EXPECTED LIFETI | ME OF COOLING S | YSTEM | | | 10 | YEARS | | |
| 40 | 19 C | OVERALL DIMENS | ION OF DRIVE PAN | IELS (L X D X H) IN MM | | | 11334*1700 | *2895(mm) | | |
| 41 | 20 V | VEIGHT OF EACH | VERTICAL PANEL | | | | 21000 | kg | | |
| 42 | 21 A | UXILIARY SUPPL | IES REQUIRED WI | TH POWER CONSUMPTION | | | | | | |
| 43 | (VI | ENDOR TO SPEC | IFY): | | | | (*) | W | 100K | VA/set |
| 44 | - N | ORMAL 230V AC | 1-Ph 50Hz | | | | (*) | W | 50K\ | /A/set |
| 45 | - N | ORMAL 400V AC | 3-Ph 50Hz (FOR AU | IXILIARIES) | | | 50kva | V | 50K\ | /A/set |
| 46 | - A | NY UPS SUPPLY | (110V DC) | | | | (*) | kW/ SECS. | | |
| 47 | 22 C | COOLING PERIOD | FOR DRIVE BEFO | RE NEXT START | | | 1min | | | |
| 48 | 23 D | DEGREE OF PROT | FECTION | | | | IP42 | | | |
| 49 | 24 C | OVERLOAD CAPA | BILITY/ NO. OF STA | RTS PER HOUR | | | 120% 1min | | | |
| 50 | | | | | | | | | | |
| 51 | C II | NPUT DRIVE TRA | NSFORMER | | | | | | | |
| 52 | 1 N | MAKE/ TYPE | | | | | Dry Type | | | |
| 53 | 2 k | VA RATING | | | | | 1600kVA | 2800kVA | | |
| 54 | 3 V | OLTAGE RATIO | | | | | 15.9 | | | |
| 55 | 4 N | NOS. OF WINDING | | | | | 27 | | | |
| 56 | 5 V | ECTOR GROUP | | | | | 9 | | | |
| 57 | 6 II | MPEDANCE | N .0 | | | | 8% | | | |
| 58 | 7 Т | AP RANGE (IF AN | NY) | | | | 5%, 0, -5% | 6 | | |
| 59 | 8 11 | MPULSE WITHST | AND LEVEL | | | | 75kV(full wa | ave peak) | | |
| 60 | | | | | | | | | | |

| PROJECT DOC. NO. C. O. C. O | | | | | | | | | | | | | STAGE | | | | |
|---|--|----|--|------------------|----------|----------------|------------|-----------|-----------------------|--------------|---------|----------|----------------|-------------------|-----------------|--------------|------|
| AREA PAGE NO. 6 OF 5 DOCUMENT DATA SHEET FOR THAVE Nov. 0 Image: Antipage of the second sec | AREA DATA SHEET ON THIV UP Rev IMMULEACTURE ISPUEC | | | | Р | ROJECT | | | | | | | DOC. NO. | | | 4 | |
| NUMBACURE OUTONING Description Description Description 0 INVECTION INTERNATION | AREA OPAL NUM OPAL NUM Re. 9 000000000 00075 0007000000 0007000000 1 0007000000 0007000000 0007000000 0007000000 1 0007000000000000000000000000 0007000000000000000000000000000000000 | | | | | | | | | | | | | | | - | |
| JOCUMENT DATA BLEET FOR 111 VP BLA. 0 IMMUNACUERS SERVE BUDINENT NO: DUPENT TANKE TABLE VELOCIMANT SALE VELOCIM | BOOMBAT BATA SHEFT OR 11W VP Rev IMMUFATURE: DEVENUE | | | | | AREA | | | | | | | PAGE NO. | 6 | OF 8 | | |
| INNUMPORTURE EXPORE EQUIPATION OTY a INPUT BINUT BINUT TRANSFORMER INPUT BINUT BINUT TRANSFORMER 2001 6 P ROVER FREQUENCY WITHSTAD LUEL 2001 10 WORD REVERT TRANSFORMER 2001 11 TRANSFORMER ACCESSORES NO 12 JANSFORMER ACCESSORES NO 13 JANSFORMER ACCESSORES NO 14 TOTAL DECORT TRANSFORMER CALVERAL 13 JANSFORMER ACCESSORES NO 14 TOTAL DECORT TRANSFORMER CALVERAL 14 TOTAL DECORT TRANSFORMER CALVERAL 14 TOTAL DECORT TRANSFORMER CALVERAL 15 CALVERAL DECORT TRANSFORMER CALVERAL 16 SALVERAL SALVERAL 16 CALVERAL DECORT TRANSFORMER SALVERAL 17 SALVERAL SALVERAL 16 SALVERAL SALVERAL 17 SALVERAL SALVERAL 18 CALVERAL DECORT TRANSFORMER SALVERAL 10 </td <td>IMMOUNT/PLRER EDWORE EQUIPATION OT/C 2 IMPORTATION ** VERDOR INFORMATION ** VERDOR INFO 3 ROVER FRIENDARY: VITATIAN LIVIL Zax* INFO 13 VITATIAN LIVIL Zax* INFO 14 TATATIANCIAN ACCESSIONE 3: NO INFO 15 CELEMARCE FROM LI SOBER MM L20mm INFO 14 SEMICONDUCTOR EXCRAGE (DODE /: INFRETOR // INFO INFO INFO 15 CELEMARCE FROM LI SOBER MACH SPH LINDOTTHOLED INFO 16 TOTAL VERDIF INFO SPH LINDOTTHOLED SPH LINDOTTHOLED 16 TOTAL VERDIF INFO SPH LINDOTTHOLED SPH LINDOTTHOLED SPH LINDOTTHOLED 17 INFO SPH LINDOTTHOLED SPH LINDOTTHOLED</td> <td></td> <td></td> <td></td> <td>DOC</td> <td>UMENT</td> <td>DA</td> <td>TA SHE</td> <td>ET FOF</td> <td>2 11kV</td> <td>VFD</td> <td></td> <td></td> <td>R</td> <td>ev. 0</td> <td>1</td> <td></td> | IMMOUNT/PLRER EDWORE EQUIPATION OT/C 2 IMPORTATION ** VERDOR INFORMATION ** VERDOR INFO 3 ROVER FRIENDARY: VITATIAN LIVIL Zax* INFO 13 VITATIAN LIVIL Zax* INFO 14 TATATIANCIAN ACCESSIONE 3: NO INFO 15 CELEMARCE FROM LI SOBER MM L20mm INFO 14 SEMICONDUCTOR EXCRAGE (DODE /: INFRETOR // INFO INFO INFO 15 CELEMARCE FROM LI SOBER MACH SPH LINDOTTHOLED INFO 16 TOTAL VERDIF INFO SPH LINDOTTHOLED SPH LINDOTTHOLED 16 TOTAL VERDIF INFO SPH LINDOTTHOLED SPH LINDOTTHOLED SPH LINDOTTHOLED 17 INFO SPH LINDOTTHOLED SPH LINDOTTHOLED | | | | DOC | UMENT | DA | TA SHE | ET FOF | 2 11kV | VFD | | | R | ev. 0 | 1 | |
| INFORMATION BY VENSOR INFORMATION BY VENSOR 0 INVECTORING TRANSFORMER BASE 1 TRANSFORMER BASE 2 CONVERTER DETALS DASE 3 TRANSFORMER BASE 4 SANT THER DETALS BASE 4 SANT THER DETALS SANT THER DETALS 5 SANT THER DETALS SANT THER DETALS 5 | International Value International Value International Value International Value 0 NOTE LARGE CONCERNATION OF VALUE International Value Internation | 1 | MANU | JFACTURER: | - | | | | | | SEI | RVICE: | | | EQUIPMENT NO .: | | QTY: |
| C INFORMATION PERFERSION 0 POWER PROJECT/UNITSTAND LEVEL 28/V 10 NOSE LEVEL 30.8 11 TRADEFORMER ACCESSORIES 80.9 12 APPLICABLIC CODES TRADERCES 80.9 13 OVERALL DURISON ALX IN XH ECC1729.1 14 TRADEFORMER ACCESSORIES 100.0000000000000000000000000000000000 | INFORMATION PROJ CONSTRUCTION DEVENTION OF AND LAY AND | 2 | | | | | | | | | | | | | SIZE: | | |
| c 0 New Transformer New Enclement with a web set of the set of t | C O NUME SMA 9 ROVER REGUREY WITHOUT SALE TABLE SMA 10 NOBELLAVE SMA 11 TARACONSTRUCTOR SALE SALE SMA 13 OVERLATIONESSONES SMA 14 TOTAL VIEWS SMA 15 CLEARS FIRMANCE SECURING 16 CLEARS FIRMANCE SECURING 17 TARACONSTRUCTOR SECURE SECURIC MINISTOR / IGET / IGET SECURING 16 CLEARS FIRMANCE SECURING 17 TARACONSTRUCTOR SECURING SECURIC MINISTOR / IGET / IGET SECURING 18 SECURING SECURING SECURING 19 CONTROLET / SALE SECURING SECURING SECURING 19 ACCONSTRUCTOR SECURING SECURING SECURING SECURING 10 CONTROLET / SALE SECURING SECURING SECURING 10 CONTROLET / SALE SECURING SECURING SECURING 14 SECURING SECURING SECURING SECURING 10 CONTROLET / SALE SECURING SECURIN | 3 | INFORMATION BY V | | | | | | | | | /ENDOR | | | | | |
| B POWER PREJUNCY (INTERNAL LONG. Take Take Take 10 NOSE NOS NOS 11 TRANSFORMER ACCESSORIES NO Inclain the inverter Fanal 13 OVERALL DURING NO X W X N Inclain the inverter Fanal 14 TOTAL WIGHT Inclain the inverter Fanal 15 CLARANCE FROM XIL SOES NUM Inclain the inverter Fanal 16 TOTAL WIGHT Inclain the inverter Fanal 17 Total Converter Componential (SPH UNCONTROLLED / SPH SEM SPH UNCONTROLLED 17 Total Converter Componential (SPH UNCONTROLLED / SPH SEM SPH UNCONTROLLED 18 Total SPH SEM | B POVER HRADING Take Zako' 1 THASPORAL ACCISSIONES NO NO NO 1 THASPORAL THASPORAL SPI UNCONTROLED 1 THASPORAL THASPORAL SP | 4 | | | | | | | | | | | | | | | |
| NORE 008 11 TARFLOALE CODEST STANDARS NO 12 APPLICALE CODEST STANDARS NO 13 OVERALL DIMENSIONER X W X 10 Install in the inverter Panel 14 TOTAL, WEIGHT 4.1005.2001 15 CLEARAGE FROM ALL SIDES IN MA 4.1005.200 16 CLEARAGE FROM ALL SIDES IN MA 1000 17 TATE ALL SIDESTING CONTRUMENT IN STORY (ABT / INVESTORY / ABT / INVESTORY / AB | 10 NOSE LEVES 608 11 TRANSPORTER ACCESSIONES NO 13 OVERALDGANSION ACCESSIONES NO 14 TRANSPORTER ACCESSIONES NO 15 OVERALDGANSION AN ALL SIDNES IN MAR 440605200 16 CLARANGER FROM ALL SIDNES IN MAR 440605200 16 CLARANGER FROM ALL SIDNES IN MAR 100em 17 REMOCRAUCTOR DEVICES DIOC/L THYRETOR / 1067 / 10CT 101 17 AREMOCRAUCTOR DEVICES DIOC/L THYRETOR / 1067 / 10CT 101 7 AREMOCRAUCTOR DEVICES DIOC/L THYRETOR / 1067 / 10CT 101 7 AREMOCRAUCTOR DEVICES DIOC/L THYRETOR / 1067 / 10CT 101 7 AREMOCRAUCTOR DEVICES DIOC/L THYRETOR / 1067 / 10CT 101 7 OVERDICA DEVICES DIOC/L THYRETOR / 1067 / 10CT 101 7 COMMETTER DETAILS 341 8 CARANGE THYRETOR / 1000 / 100 | 5 | 9 | POWER FREQU | JENCY | WITHSTA | ND LEVE | EL | | | | | | 28kV | | | |
| 1 IPANGOV/MICR AUCLESSONAES INCO 1 TEXAPPLICABLE CODES 71 MARKAGE IECC179-1 1 IECC179-1 IECC179-1 1 TEXAPPLICABLE CODES 71 MARKAGE IECC179-1 1 IECC179-1 IECC179-1 2 CONTROLED 7-3PH FULLY CONTROLED / 3PH SEM | 1 1 <td>7</td> <td>10</td> <td>NOISE LEVEL</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>80dB</td> <td></td> <td></td> <td></td> | 7 | 10 | NOISE LEVEL | | | | | | | | | | 80dB | | | |
| 1 OPERATOR Inclusion 1 OPERATOR Inclusion 1 TOTAL WRIGING X X X X / X 1 TOTAL WRIGING X X X X / X 1 T | Image: model and model and model and an analysis of the second | 8 | 11 | | | SSORIES | 00 | | | | | | | NO | | | |
| 1 TOTAL WEGHT 10000 (0.0000) 1 TOTAL WEGHT 4.0000 (0.0000) 1 TOTAL WEGHT 120000 1 TOTAL WEGHT 120000 1 SEMICOLOUCTOR EVENDES (DOCE / HYNRISTOR / ADE | International Annaly Instant in any endowner and the any endowner any endowner any endowner any endowner any endowner any endowner and the any endowner and the any endowner any endownerany endowner any endowner any endownerany endowner an | 9 | 12 | | | | -03 | | | | | | | IEC61378-1 | inverter Denel | | |
| 15 CLEARANCE FROM ALL SIDES IN MM 120mm 16 AC-0C CONVERTER DETAILS 120mm 17 SEMICONDUCTOR DEVICES INFORMED THYRISTOR / IGET 1007 18 CONVERTER CONFIGURATION (3PH LINEON TROLLED ' 3PH SEMI 3 PH LINCONTROLLED 18 CONVERTER CONFIGURATION (3PH LINEON TROLLED ' 3PH SEMI 3 PH LINCONTROLLED 19 CONVERTER CONFIGURATION (3PH LINEON TROLLED ' 3PH SEMI 3 PH LINCONTROLLED 10 CONVERTER CONFIGURATION (3PH LINEON TROLLED ' 3PH SEMI 3 PH LINCONTROLLED 10 CONTORS FRE BRANCH 30. 10 CONTORS FRE BRANCH 30. 11 INTUT PREFORMANCE 95% LOAD 2% LOAD 11 INTUT PREFORMANCE 1007 7% LOAD 2% LOAD 11 INTUT PREFORMANCE 1007 7% LOAD 2% LOAD 11 INTUT PREFORMANCE 1007 7% LOAD 2% LOAD 12 INTUT PREFORMANCE 1003 0.03 0.07 1007 10 INTUT PREFORMANCE 1003 0.03 0.07 1007 10 INTUT PREFORMANCE 1007 1007 1007 | 10 CLEARANCE PROM ALL SIDES IN MM 1000000000000000000000000000000000000 | 10 | 14 | | - | | " | | | | | | | 4 1KG/5 2KG | | | |
| D Action Converter Detail.5 Intermediate 1 SEMICONDUCTOR SPECIES ROODE / THYRISTOR / IGET / IGET ILEE 2 CONVERTER CONSULTOR SPECIES ROODE / THYRISTOR / IGET / IGET ILEE 3 NO. OF FULSE SEMICONDUCTOR SPECTR BRANCH 36 4 INCUT PERFORMANCE PROVINCE 94 94 4 SEMICONDUCTOR SPECTR BRANCH 36 36 5 SEMICONDUCTOR SPECTR BRANCH 94 94 4 INCUT PERFORMANCE PROVINCE | D AL-DO CONVERTER OWNERS (DIODE / THYNSTOM / IGBT / IGCT Identify 1 SEMACONDUCTOR DEVICES (DIODE / THYNSTOM / IGBT / IGCT Identify 2 CONVERTER OWNERS (DIODE / THYNSTOM / IGBT / IGCT Identify 3 NO. OF PLASE SPH LAUCONTROLLED 4 INET/TERE/OWNER SPH LAUCONTROLLED 9 NO. OF PLASE SPH LAUCONTROLLED 9 VENOCS SHALL FUNNASE THE PERFORMANCE FOR INFORMACE PLANET SPH LANCONTROLLED 9 VENOCS SHALL FUNNASE THE PERFORMANCE PLANET SPH LANCONTROLLED 9 VENOCS SHALL FUNNASE THE PERFORMANCE PLANET SPH LANCONTROLLED 9 VENOCS SHALL FUNNASE THE PERFORMANCE PLANET SPH LANCONTROLLED 9 CONVERTER CONTROLLED /SPH LAUCONTROLLED SPH LANCONTROLLED 9 CONVERTER CONTROLLED /SPH LAUCONTROLLED SPH LANCONTROLLED 9 CONVERTER CONTROLLED /SPH LAUCONTROLLED SPH LANCONTR | 11 | 15 | CLEARANCE FF | ROM AL | L SIDES I | N MM | | | | | | | 4. 110/5.210 | | | |
| 1 0 AC DC COMPETER BETAILS 1 SENCONDUCTOR DEVICES (DIODE FUNCTOR LED / IGET / IGE | 10 0 Accol CONVERTER DETAILS 1 SEMACODALICTOR DEVICES (DIODE / HUMBSTOR / HOBT / ACC) 1081 1 SEMACODALICTOR DEVICES (DIODE / HUMBSTOR / HOBT / ACC) 1081 2 CONVERTER CONFIGURATION (S-M LACONTROLLED / S-M SEM 3-M UNCONTROLLED 3 NO. OF FULSE 34 4 INPUT PERFORMANCE 34 7 NEWT PERFORMANCE FIGURE FOR FIGURE FOR 54 8 | 12 | | | | | | | | | | | | 1201111 | | | |
| 1 SEMICONDUCTOR DEVICES (DIODE / THYRISTOR / IGBT / IGCT 1081 2 CONVENTER CONFIGURATION (S-PH UNCONTROLLED / S-PH BEMI 3-PH UNCONTROLLED 3 NO, OF PLUSE 36 4 INOVIT PERFORMANCE 54 5 YEADOR SMALL FURNER THE PERFORMANCE FOLLED FOR 54 7 YEADOR SMALL FURNER THE PERFORMANCE FOLLER FOR 54 7 YEADOR SMALL FURNER THE IDAR 75% LOAD 59% LOAD 29% LOAD 7 YEADOR SMALL FURNER THE IDAR 75% LOAD 29% LOAD 29% LOAD 7 YEADOR SMALL FURNER THE IDAR 75% LOAD 29% LOAD 29% LOAD 7 YEADOR SMALL FURNER THE IDAR 75% LOAD 29% LOAD 29% LOAD 7 YEADOR SMALL FURNER THE IDAR 75% LOAD 29% LOAD 29% LOAD 8 TOTAL INFUT RMS CURRENT THE IDAR 75% LOAD 29% LOAD 29% LOAD 9 YEADOR SMALL FURNER THE IDAR 75% LOAD 29% LOAD 29% LOAD 9 YEADOR SMALL FURNER THE IDAR 75% LOAD 29% LOAD 29% LOAD 9 YEADOR SMALL FURNER THE IDAR 75% LOAD 29% LOAD 29% LOAD 9 | 1 SEMICONJOICR EPURES DIDE I THYRITOR / GeT / IGCT 1/411 7 AVENUES 3-PH LACONTROLLED 2 CONVETTER CONTROLLED / 3-PH SEMI 3-PH LACONTROLLED 3 NO. OF FULSE Second 4 INUT FERFORMANCE 36 3 NO. OF FULSE 34 4 INUT FERFORMANCE 34 7 VENDOR SML JURISH THE ENFORMANCE FIGURE FOR 34 7 VENDOR SML JURISH THE ENFORMANCE FIGURE FOR 34 7 VENDOR SML JURISH THE ENFORMANCE FIGURE FOR 34 8 1074L INPT FERFORMANCE PROMINE FIGURE FOR 34 9 SCURENT THO 0.03 0.035 0.07 9 FUNDAMENTA POWER 0.92 0.92 0.92 0.92 9 FACTOR (OPF) 0.92 0.92 0.95 0.95 9 FACTOR (OPF) 0.92 0.92 0.92 0.92 9 CONVERTER EPTONENCE MERCE MARCE MARCE 1005 0.95 0.95 0.95 <td< td=""><td>13</td><td>D</td><td>AC-DC CONVER</td><td>RTER D</td><td>ETAILS</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | 13 | D | AC-DC CONVER | RTER D | ETAILS | | | | | | | | | | | |
| 1 ANY OTHER) 3 2 CONVERTER CONFIGURATION G. PH UNCONTROLLED / 3-PH SEM 3-PH UNCONTROLLED 3 NO OF PULSE 36 3 NO OF PULSE 54 4 NRVT PERFORMANCE 54 4 NRVT PERFORMANCE 54 4 NRVT PERFORMANCE 54 5 Status 54 4 NRVT PERFORMANCE 57 4 NRVT PERFORMANCE 100% 5 FERFORMANCE RAAMETER 100% 6 0,0 57% LOAD 57% LOAD 7 6 0,0 57% LOAD 6 0,0 57% LOAD 57% LOAD 7 6 0,0 0.035 0.07 7 5.0 CURRENT THO 0.03 0.035 0.07 7 5.0 CURRENT THO 0.92 0.92 0.92 7 FUDOMETRIC CONCE 0.96 0.95 0.95 8 CONVERTER EFFICIENCY 0.96 0.96 0.95 9 100% Load 75% Load 5% load 3% load 4004 4004 1 100% Load 5% load 5% load 5% load 4004 4004 1 1.0 1.0 1.0 1.0 1 | 1 ANY OTHER 1 2 CONVERTER CONSIGURATION () 5-H LIX CONTROLLED / 3-H SEMI 3-H-LIX CONTROLLED 3 NO. OF PLISE 54 3 NO. OF PLISE 54 4 NO. OF PLISE 54 5 MORE PARAMETER 100% 6 NO. OF PLISE 54 7 VENDOS SHUL FURNATIONE THE PERFORMANCE FIGURE FOR 54 7 VENDOS SHUL FURNATIONE THE PERFORMANCE FIGURE FOR 54 7 VENDOS SHUL FURNATIONE THE PERFORMANCE FIGURE FOR 55% LOAD 8 TOTAL INPUT FINE CURRENT 50% LOAD 9 NO. OF PLISE 50% LOAD 9 NO. OF PLISE 54 9 NO. OF PLISE 50% LOAD 9 CONVERTER EFFICIENCY 0.96 9 OVENETER EFFICIENCY 0.96 9 OVENETER EFFICIENCY 0.96 10 0.01 MMS | 14 | 1 | SEMICONDUCT | OR DE | VICES (DI | DDE / TH | HYRIST | DR / IGE | 3T / IG | CT | | | IGBT | | | |
| 1 2 CONVERTE CONFIGURATION LEP / 3-PH SEM 3-PH UNCONTROLLED CONTROLLED / 3-PH FULLY CONTROLLED / 3-PH SEM 36 Image: Set of the set of | In 2 CONVERTER CONFIGURATION OF PLUEOD WITH NO. OF Image: Configuration of process of the second s | 15 | | / ANY OTHER) | | | | | | | | | | | | | |
| 11 CONTROLED 3-PH FULLY CONTROLED WITH NO. OF 38 3 NO. OF PULSE 54 3 NO. OF PULSE 64 4 IRPUT PERFORMANCE 54 4 IRPUT PERFORMANCE 57 4 VENDORS SHALL FUNKTINE THE PERFORMANCE FIGURE FOR 57 5 PERFORMANCE PARAMETER 0.00 6 100% 577 4 VENDORS VICL FUNKTINE THE PERFORMANCE FIGURE FOR 577 4 CURRENT TO 0.03 6 0.03 0.035 7 100.13 0.035 7 K-CURRENT TOD 8 0.05 0.97 9 FUNDAMENTAL FOWER 7 0.96 0.95 9 CONVERTER EFFICIENCY 100% INDE TWING TWO CONTROLED WITH THE PERFORMANCE PROFILE (Not-10) 100% INDE TWING TWO CONTROLED WITH THE PERFORMANCE PROFILE (Not-10) 100% INDE TWING TWO CONTROLED WITH TOD 100% INDE TWING TWO CONTROLED WITH PERFORMANCE PROFILE (Not-10) 100% INDE TWING TWO CONTROLED WITH PROFILE (Not-10) 100% INDE TWING TWO CONTROL TWO WITH PROFILE (NOT-10) | 17 CONTROLLED / 3-PH FULLY CONTROLLED / WITH NO. OF 36 13 NO. OF PLUSE 54 14 INDUT FERFORMANCE 54 15 MO OF PLUSE 54 16 WENDOR SNAL FURNISH THE PERFORMANCE FIGURE FOR 59% LOAD 16 PERFORMANCE PARAMETER 100% 17 VENDOR SNAL FURNISH THE PERFORMANCE FIGURE FOR 59% LOAD 17 PERFORMANCE PARAMETER 100% 10 VENDOR SNAL FURNISH THE PERFORMANCE FIGURE FOR 59% LOAD 17 VENDOR SNAL FURNISH THE PERFORMANCE FIGURE FOR 59% LOAD 17 VENDOR SNAL FURNISH THE PERFORMANCE FIGURE FOR 59% LOAD 17 VENDOR SNAL FURNISH THE PERFORMANCE FIGURE FOR 59% LOAD 17 VENDOR SNAL FURNISH THE PERFORMANCE FIGURE FOR 59% LOAD 18 S. CURRENT THANKING PERFECTION 0.92 0.92 19 CONVERTER EFFICIENCY 0.96 0.955 0.95 10 MSE MSEC MSEC MSEC 11 1.42 10% | 16 | 2 | CONVERTER CO | ONFIG | URATION | (3-PH U) | NCONT | ROLLED |) / 3-Pł | H SEM | I | | 3-PH UNCO | NTROLLED | | |
| 1 SEMICONDUCTORS PER BRANCH 38 3 NOV OF PULSE 64 4 INPUT PERFORMANCE: 54 4 VENDOR SHALL FURNISH THE PERFORMANCE FIGURE FOR 575 7 VENDOR SHALL FURNISH THE PERFORMANCE FIGURE FOR 575 7 NOUTOULD DRIVE REST 000% 7 100% 757 8 100% 757 9 0.03 0.035 9 FURDOR SHALL FURNISH THE PERFORMANCE FIGURE FOR 9 CONVERTING 0.03 9 CONVERTING 0.03 9 CONVERTING 0.03 9 FURDARENTING 0.92 9 FACTOR (OPF) 0.92 9 CONVERTE FFICENCY 0.96 9 CONVERTE FFICENCY 0.96 9 CURRENT TARMONIC PROFILE (Venet 10) 9 AMPS 100% 10 10 100% 11 142 12 10% 13 138 13 10% 13 138 | 10 SEMICONDUCTORS FER BRANCH 30 2 MOVT FERSORMACE: 54 4 INDIT FERSORMACE: 54 2 VERDOR SHALL FURNISH THE PERFORMANCE FIGURE FOR 59% LOAD 2 NERVIDUL, DRIVE AS FOLLOWS: 25% LOAD 2 PERFORMANCE PARAMETER 100/r (j) 4 100/r (j) 577 4 33 288 10 100/r (j) 577 4 33 288 10 0.03 0.035 10 0.03 0.035 10 0.09 0.92 10 0.92 0.92 10 0.92 0.92 10 100/r 10 100/r | 17 | | CONTROLLED / 3- | PH FUL | LY CONTI | ROLLED |) WITH | NO. OF | | | | | | | | |
| 19 3 NO.OF PULSE 54 4 INPUT PERFORMANCE INDUTO PULSE 54 2 INDUTO SHALL FURNISH THE PERFORMANCE FIGURE FOR INDUTO PULSE INDUTO PULSE 2 INDUTO PULSE 100% 55% LOAD 25% LOAD 3 DEFERORMANCE PARAMETER 100% 75% LOAD 25% LOAD 4 INDUTO PULSE 577 433 288 145 5 SCURRENT THO 0.03 0.035 0.07 INDUTO PULSE 5 % CURRENT TO 0.92 0.92 0.92 0.99 6 FACTOR (DPF) 0.92 0.92 0.95 0.95 6 CURRENT HARMONIC PROFILE (Not-10) INDUE INDUE INDUE 6 CURRENT HARMONIC PROFILE (Not-10) INDUE INDUE INDUE 7 1.08 1.09% INDUE INDUE INDUE 8 5 2.10% INDUE INDUE INDUE 9 CURRENT HARMONIC PROFILE (Not-10) INDUE INDUE INDUE 1000% INDUE INDUE INDUE </td <td>10 3 NO. OF PLUSE 54 4 INSUPT PERFORMANCE FIGURE FOR INSUPERATIONAL FUNDAME FIGURE FOR 2 VENDOR SHALL FUNDAME FIGURE FOR 100% 75% LOAD 25% LOAD 2 FORTAL FUNDAME AS FOLLOWS: 100% 75% LOAD 25% LOAD 25% LOAD 2 FORTAL FUNDAME FIGURE FOR 777 433 288 145 </td> <td>18</td> <td></td> <td>SEMICONDUCTOR</td> <td>S PER</td> <td>BRANCH</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>36</td> <td></td> <td></td> <td></td> | 10 3 NO. OF PLUSE 54 4 INSUPT PERFORMANCE FIGURE FOR INSUPERATIONAL FUNDAME FIGURE FOR 2 VENDOR SHALL FUNDAME FIGURE FOR 100% 75% LOAD 25% LOAD 2 FORTAL FUNDAME AS FOLLOWS: 100% 75% LOAD 25% LOAD 25% LOAD 2 FORTAL FUNDAME FIGURE FOR 777 433 288 145 | 18 | | SEMICONDUCTOR | S PER | BRANCH | | | | | | | | 36 | | | |
| 4 INPUT PERFORMANCE: VENDER SHALL PERFORMANCE PROMMACE FIGURE FOR INDIVIDUAL DRIVE AS FOLLOWS: PERFORMANCE PRAVMETER 100% 7% LOAD 2% LOAD 7 100 VIDUAL DRIVE AS FOLLOWS: 8 0(h) 577 433 288 145 7 100 VIDUAL DRIVE AS FOLLOWS: 0.03 0.035 0.07 8 % CURRENT TOD 0.92 0.92 0.92 0.93 9 FACTOR (DPF) 0.92 0.92 0.92 0.93 100 VIDUAL DRIVE PROVER 0.92 0.92 0.93 0.95 100 VIDUAL DRIVE PROVER 0.92 0.92 0.93 0.95 100 VIDUAL DRIVE POWER 0.92 0.92 0.95 0.95 100 VIDUAL DRIVE POWER 0.92 0.92 | 4 INPUT PERFORMANCE INPUT PERFORMANCE VENDONS SHALL FORMSH THE PERFORMANCE FIGURE FOR INDIVIDUAL ORIVE AS FOLLOWS: PERFORMANCE PARAMETER 100/h 79% LOAD 29% LOAD INDIVIDUAL ORIVE AS FOLLOWS: INDIVIDUAL ORIVE AS FOLLOWS: INDIVIDUAL ORIVE AS FOLLOWS: INDIVIDUAL ORIVE AS FOLLOWS: 577 433 288 145 INDIVIDUAL ORIVE AS CURRENT THD 0.03 0.035 0.07 INDIVIDUAL ORIVER % CURRENT THD 0.03 0.035 0.07 INDIVIDUAL ORIVER FUNDAMENTAL POWER 0.92 0.92 0.92 0.92 CONVERTER FFICIENCY 0.96 0.955 0.95 INDIVIDUAL ORIVER INDIVIDUAL ORIVER 0.92 0.92 0.92 INDIVIDUAL ORIVER INDIVIDUAL ORIVER 0.96 0.955 0.95 INDIVIDUAL ORIVER INDIVIDUAL ORIVER 0.96 0.955 0.95 INDIVIDUAL ORIVER INDIVIDUAL ORIVER 0.96 0.955 INDIVIDUAL ORIVER INDIVIDUAL ORIVER INDIVIDUAL ORIVER INDIVIDUAL ORIVER INDIVIDUAL ORIVER INDIVIDUAL ORIVER INDIVIDUAL ORIVIDUAL ORIVER | 19 | 3 | NO. OF PULSE | | | | | | | | | | 54 | | | |
| 1 VENOR SHUL FURNSH THE PERFORMANCE FOLUME: SUPERATION STATES AND STATES AN | 1 VENDOR SHULL FURNSH THE PERFORMANCE FOLUER FOR INNUTURAL DRIVE ASTOLLAWS: 00% 25% LOAD PERFORMANCE PARAMETER 00% 25% LOAD 0 0,0 577 433 288 10TAL INPUT RMS CURRENT 0.03 0.035 0.07 0 % CURRENT THD 0.03 0.035 0.07 1 % CURRENT TDD 1 1 1 Korken TDD 1 1 1 Korken TDD 1 1 1 CONVERTER EFFICIENCY 0.96 0.95 0.95 1 MPS MRS MRS MRS MRS 1 1.00% 1 1 1 1 1 1.2 1.00% 1 1 1 1 1.2 <td>20</td> <td>4</td> <td>INPUT PERFOR</td> <td>MANC</td> <td>E:</td> <td></td> | 20 | 4 | INPUT PERFOR | MANC | E: | | | | | | | | | | | |
| IDMUDUAL DRIVE AS FOLLOWS: 100% 25% LOAD 25% LOAD PERFORMANCE PARAMETER LOAD 50% LOAD 25% LOAD TOTAL INPUT RMS CURRENT 0.03 0.035 0.05 0.07 W. CURRENT THD 0.03 0.035 0.05 0.07 W. CURRENT TDO 0.92 0.92 0.92 0.95 FUNDAMENTAL POWER 0.92 0.92 0.95 0.95 CONVERTER EFFICIENCY 0.96 0.955 0.95 0.95 CONVERTER EFFICIENCY 0.96 0.955 0.95 0.95 CONVERTER EFFICIENCY 0.96 0.955 0.95 0.95 CURRENT HARMONE PROFILE (Note-10) 0.95 0.95 0.95 CURRENT HARMONE PROFILE (Note-10) 0.95 0.95 0.95 CURRENT HARMONE PROFILE (Note-10) 0.96 0.95 0.95 CURRENT HARMONE PROFILE (Note-10) 0.96 0.95 0.95 CURRENT HARMONE PROFILE (Note-10) 0.95 0.95 0.95 CURRENT HARMONE PROFILE (Note-10) 0.95 | INDIVIDUAL BUYE AS FOLLOWS: 100% 75% LOAD 2% LOAD 2% LOAD PERFORMANCE PARAMETER 100A 7% LOAD 2% LOAD | 21 | | VENDOR SHALL F | URNIS | H THE PER | RFORMA | NCE FI | GURE F | OR | | | | | | | |
| PERFORMANCE PARAMETER 100% 7% LOAD 5% LOAD 5% LOAD TOTALINET INS CURRENT 577 4.33 2.88 145 (1) 577 4.33 2.88 145 % CURRENT THD 0.03 0.035 0.07 % CURRENT THD 0.92 0.92 0.92 0.9 FACTOR (DPF) 0.92 0.92 0.95 0.95 CONVERTER EFFICIENCY 0.96 0.96 0.95 0.95 100% load 75% load 50% load 25% load 5 2.2 100% 0.95 MAPS CREENT HARMONC PROFILE (Non-10) NOLE NOLE NOLE 100% load 75% load 50% load 25% load S 100% 0.95 100% 101 100% 1 1 1 1 1 101 100% 1 1 1 1 1 11 1.42 100% 1 1 1 1 11 1.42 100% 1 1 1 < | PERFORMANCE PARAMETER 100% 75% LOAD 29% LOAD 29% LOAD TOTAL INPUT NBS CURRENT 577 433 288 145 (h) 577 433 288 145 % CURRENT TUD 0.03 0.035 0.07 | 22 | | INDIVIDUAL DRIVE | AS FO | DLLOWS: | | | | | | | | | | | |
| 2 TOTAL INPUT RMS CURRENT 577 433 288 145 2 % CURRENT THD 0.03 0.035 0.05 0.07 3 FUNOMENTAL POWER 0.92 0.92 0.92 0.9 4 FUNOMENTAL POWER 0.92 0.92 0.92 0.95 5 CONVERTER EFFICIENCY 0.96 0.955 0.95 4 CONVERTER EFFICIENCY 0.96 0.955 0.95 5 CURRENT THARMONIC PROFILE (Note-10) 100% load 25% load 25% load 100% 4 MM* AM* AM* AM* AM* 100% load 75% load 25% load 25% load 100% 1 1 5 2.2 100% 1 1 1 6 11 1.42 100% 1 1 41 13 1.36 100% 1 1 42 17 0.11 100% 1 1 43 19 0.07 100% 1 1 44 23 0.03 100% 1 1 45 0.03 100% 1 1 1 46 29 0.3 100% 1 1 <td< td=""><td>TOTAL INPUT RMS CURRENT 577 4.3 288 14.5 0(1) % CURRENT THO 0.03 0.035 0.07 % CURRENT TOD 0.03 0.025 0.09 FUNDAMENTAL POWER 0.92 0.92 0.92 0.9 FUNDAMENTAL POWER 0.92 0.92 0.92 0.9 CONVERTER EFFICIENCY 0.96 0.955 0.95 CURRENT TARMONIC PROFILE (Note: 10) 000% load 5% load 2% load 0 MIRE MIRE MIRE MIRE MIRE 100% load 5% load 5% load 2% load 0 0 0 0 11 1.42 1.045 1 0 0 13 1.32 1.00% 1 0 0 13 1.32 1.00% 1 0 0 13 1.32 1.00% 1 0 0 13 1.32 1.00% 1 0 0 14 1.03 1.04 1.04 0 <</td><td>2</td><td></td><td>PERFORMANCE PARA</td><td>METE</td><td>R</td><td>100 LOA</td><td>% AD 7</td><td>5% LOA</td><td>AD</td><td>50%</td><td>LOAD</td><td>25% LOAD</td><td></td><td></td><td></td><td></td></td<> | TOTAL INPUT RMS CURRENT 577 4.3 288 14.5 0(1) % CURRENT THO 0.03 0.035 0.07 % CURRENT TOD 0.03 0.025 0.09 FUNDAMENTAL POWER 0.92 0.92 0.92 0.9 FUNDAMENTAL POWER 0.92 0.92 0.92 0.9 CONVERTER EFFICIENCY 0.96 0.955 0.95 CURRENT TARMONIC PROFILE (Note: 10) 000% load 5% load 2% load 0 MIRE MIRE MIRE MIRE MIRE 100% load 5% load 5% load 2% load 0 0 0 0 11 1.42 1.045 1 0 0 13 1.32 1.00% 1 0 0 13 1.32 1.00% 1 0 0 13 1.32 1.00% 1 0 0 13 1.32 1.00% 1 0 0 14 1.03 1.04 1.04 0 < | 2 | | PERFORMANCE PARA | METE | R | 100 LOA | % AD 7 | 5% LOA | AD | 50% | LOAD | 25% LOAD | | | | |
| India in the second | Indextraction 577 433 288 145 Image: state of the s | 2 | | | IDDEN | т | | | | | | | | | | | |
| No. No. <td>% CURRENT THD 0.03 0.03 0.05 0.07 % CURRENT THD 0.92 0.92 0.92 0.9 FACTOR (0PF) 0.92 0.92 0.95 0.95 CONVERTER EFFICIENCY 0.96 0.955 0.95 0.95 CONVERTER EFFICIENCY 0.96 0.955 0.95 0.95 CURRENT HARMONG PROFILE (Note-10) 100% load 5% load 5% load AMPS AMPS MAPS OKALE SM AMPS AMPS 100% load 7% load 5% load 2% load SMCLE AMPS AMPS 101 100% I I I I 101 100% I I I I 101 1.42 I I I I 101 1.42 I I I I 101 1.42 I I I I 101 1.00% I I I I 101 1.00% I I<td>26</td><td></td><td>(la)</td><td></td><td></td><td>577</td><td>2</td><td>433</td><td>2</td><td colspan="3">288 145</td><td></td><td></td><td></td><td></td></td> | % CURRENT THD 0.03 0.03 0.05 0.07 % CURRENT THD 0.92 0.92 0.92 0.9 FACTOR (0PF) 0.92 0.92 0.95 0.95 CONVERTER EFFICIENCY 0.96 0.955 0.95 0.95 CONVERTER EFFICIENCY 0.96 0.955 0.95 0.95 CURRENT HARMONG PROFILE (Note-10) 100% load 5% load 5% load AMPS AMPS MAPS OKALE SM AMPS AMPS 100% load 7% load 5% load 2% load SMCLE AMPS AMPS 101 100% I I I I 101 100% I I I I 101 1.42 I I I I 101 1.42 I I I I 101 1.42 I I I I 101 1.00% I I I I 101 1.00% I I <td>26</td> <td></td> <td>(la)</td> <td></td> <td></td> <td>577</td> <td>2</td> <td>433</td> <td>2</td> <td colspan="3">288 145</td> <td></td> <td></td> <td></td> <td></td> | 26 | | (la) | | | 577 | 2 | 433 | 2 | 288 145 | | | | | | |
| 3 % CURRENT TDD 0.000 0.000 0.000 29 FUNDAMENTAL POWER FACTOR (0PF) 0.92 0.92 0.92 0.9 3 CONVERTER EFFICIENCY 0.96 0.955 0.95 3 CURRENT HARMONIC PROFILE (Note-10) 0.96 0.955 0.95 3 CURRENT HARMONIC PROFILE (Note-10) 0.96 0.955 0.95 3 CURRENT HARMONIC PROFILE (Note-10) 0.96 0.955 0.95 4 100% load 75% load 25% load 0.95 0.95 0.95 5 2.2 100% 0.96 0.96 0.95 6 5 2.2 100% 0.96 0.96 11 1.42 100% 0.96 0.96 0.96 41 13 1.36 100% 0.96 0.96 42 17 0.11 100% 0.96 0.96 43 19 0.07 100% 0.96 0.96 44 23 0.03 100% 0.96 0.96 45 29 0.96 0.96 0.96 46 29 0.96 0.96 0.96 47 0.97 0.96 0.96 0.96 <t< td=""><td>No. CURRENT TDD Order Order</td><td>27</td><td colspan="5">6 (I_s) 7 % CURRENT THD</td><td colspan="2">0.035</td><td></td><td>0.05</td><td></td><td>0.07</td><td></td><td></td><td></td><td></td></t<> | No. CURRENT TDD Order | 27 | 6 (I _s) 7 % CURRENT THD | | | | | 0.035 | | | 0.05 | | 0.07 | | | | |
| PUNDAMENTAL POWER FACTOR (DPF) 0.92 0.92 0.92 0.92 0.92 0.93 CONVERTER EFFICIENCY 0.96 0.96 0.955 0.95 0.95 CONVERTER EFFICIENCY 0.96 0.96 0.955 0.95 0.95 CONVERTER EFFICIENCY 0.96 0.96 0.955 0.95 0.95 CURRENT HARMONIC PROFILE (Mote-10) 100% load 5% load 5% load | 20 FUNDAMENTAL POWER FACTOR (DF) 0.92 0.92 0.92 0.93 0.95 0.95 30 CONVERTER EFFICIENCY 0.96 0.95 0.95 0.95 0.95 31 CURRENT HARMONIC POFILE (Note-10) TONK Ioad 75% Ioad 90% Ioad 95% Ioad TONK Ioad 75% Ioad 90% Ioad 95% Ioad TONK Ioad 75% Ioad 90% Ioad 95% Ioad 36 TONK Ioad 75% Ioad 90% Ioad 95% Ioad 37 AMPS MAPS MAPS MAPS MAPS MAPS 38 5 2.2 100% Ioad 90% Ioad 95% Ioad TONK Ioad 95% Ioad TONK Ioad 95% Ioad 39 7 1.06 100% Ioad Ioa Ioad Ioa Ioad Ioa 4 13 1.38 100% Ioad Ioa Ioad Ioa Ioad Ioa 4 19 0.07 100% Ioad Ioa Ioad Ioa Ioad Ioa 4 23 0.03 100% Ioad Ioa Ioad Ioa Ioad Ioad Ioa 4< | 28 | | % CURRENT | TDD | | 0.05 | Ť | | Ť | 0.05 | | 0.07 | | | | |
| Sector (DPF) 0.92 0.92 0.92 0.92 0.92 0.93 3 CONVERTER EFFICIENCY 0.96 0.96 0.955 0.95 3 CURRENT HARMONIC PROFILE (Note-10) Imps (Note) 75% load 50% load 25% load Imps (Note) 75% load 50% load 25% load 3 CURRENT HARMONIC PROFILE (Note-10) Imps (Note) 75% load 50% load 25% load Imps (Note) 75% load 50% load 25% load 3 Imps (Note) 75% load 50% load 25% load Imps (Note) 75% load 25% load Imps (Note) 75% load 25% load 3 Imps (Note) 75% load 50% load 25% load Imps (Note) 75% load 25% load Imps (Note) 75% load 25% load 3 Imps (Note) 75% load 25% load Imps (Note) 75% load 25% load Imps (Note) 75% load 25% load 3 Imps (Note) 75% load 25% load Imps (Note) 75% load 25% load Imps (Note) 75% load 25% load 3 Imps (Note) 75% load 25% load Imps (Note) 75% load 25% load Imps (Note) 75% load 25% load 3 Imps (Note) 75% load 25% load Imps (Note) 75% load 25% load Imps (Note) 75% load 25% load 4 Imps (Note) 75% load 25% load Imps (Note) 75% load 25% load Imps (Note) 75% load 25% load 4 Imps (Note) 75% load 25% load 25% load Imps (Note) 75% load 25% loa | PACTOR (DPF) 0.92 0.92 0.92 0.92 0.92 0.93 CONVERTER EFFICIENCY 0.96 0.96 0.955 0.95 0.95 CONVERTER EFFICIENCY 0.96 0.96 0.955 0.95 0.95 CURRENT HARMONIC PROFILE (Note-10) 100% load 75% load 25% load | 29 | | FUNDAMENTAL PC | WER | | | | | | | | | | | | |
| 3 CONVERTER EFFICIENCY 0.96 0.96 0.955 0.95 3 CURRENT HARMONIC PROFILE (Note-10) 100% load 75% load 25% | 3 CONVERTER EFFICIENCY 0.96 0.96 0.95 0.95 0.95 3 CURRENT HARMONIC PROFILE (Note: 10) 100% load 75% load 50% load 25% load AMPS ANGLE 3 AMPS AMPS AMPS AMPS AMPS CURRENT HARMONIC PROFILE (Note: 10) 3 AMPS AMPS AMPS AMPS AMPS CURRENT 3 5 2.2 100% I I I I 4 11 1.42 100% I I I 4 13 1.38 100% I I I 4 23 0.03 100% I I I 5 0.03 100% I I I I <tr< td=""><td>30</td><td></td><td>FACTOR (DF</td><td>PF)</td><td></td><td>0.92</td><td>(</td><td>).92</td><td>- 19</td><td>0.92</td><td></td><td>0.9</td><td></td><td></td><td></td><td></td></tr<> | 30 | | FACTOR (DF | PF) | | 0.92 | (|).92 | - 19 | 0.92 | | 0.9 | | | | |
| Sector CURRENT HARMONIC PROFILE (Note-10) Sector 100% load 75% load 50% load 25% load Sector AMPS ANGLE (NEG) AMPS ANGLE (DEG) AMPS ANGLE (DEG) Sector AMPS ANS NAGLE (DEG) AMPS ANGLE (DEG) AMPS ANGLE (DEG) Sector AMPS AL AMPS NAGLE (DEG) AMPS ANGLE (DEG) AMPS ANGLE (DEG) Sector AMPS AL A C A ANGLE (DEG) AMPS ANGLE (DEG) Sector A AMPS NAGLE (DEG) AMPS ANGLE (DEG) AMPS ANGLE (DEG) Sector T L L L L L L L Sector T L L L L L L Sector T L L L L L L L Sector T L L L L L L L Sector L L L L <thl< th=""> L L</thl<> | American Current Hardonic PROFILE (Note: 1) Current Hardonic PROFILE (Note: 1) 100% Ioad 75% I | 31 | | CONVERTER EFFI | CIENC | Y | 0.96 | (|).96 | (| 0.955 | 5 | 0.95 | | | | |
| CURRENT HARMONIC PROFILE (Note-10) 100% load 75% load 25% load a AMPS AMSLE AMPS AMPS CUE AMPS AMSLE AMPS AMPS CUE AMPS AMSLE AMPS AMPS CUE AMPS AMPS CUE AMPS AMPS CUE AMPS AMPSLE AMPSLE </td <td>33 CURRENT HARMONIC PROFILE (Note-10) 34 OW/ load 75% load 50% load 25% load Amp NOLE Amps NOLE 35 Amp Nole Amps Nole Amps Nole Amps Nole 37 Amps Nole Amps Nole Amps Nole Amps Nole 37 Image: State of the stat</td> <td>32</td> <td colspan="6">32 CONVENTER EFFICIENCE 0.20 0.20</td> <td colspan="4"></td> <td></td> <td></td> <td></td> <td></td> <td></td> | 33 CURRENT HARMONIC PROFILE (Note-10) 34 OW/ load 75% load 50% load 25% load Amp NOLE Amps NOLE 35 Amp Nole Amps Nole Amps Nole Amps Nole 37 Amps Nole Amps Nole Amps Nole Amps Nole 37 Image: State of the stat | 32 | 32 CONVENTER EFFICIENCE 0.20 0.20 | | | | | | | | | | | | | | |
| 4 | 34 100% load 75% load 55% load AMPS AMPS <th< td=""><td>33</td><td></td><td></td><td>CU</td><td>RRENT HA</td><td>RMONI</td><td>C PROF</td><td>ILE <mark>(N</mark>o</td><td>te-10)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<> | 33 | | | CU | RRENT HA | RMONI | C PROF | ILE <mark>(N</mark> o | te-10) | | | | | | | |
| 3 4 $ANGE$ AMP | Amps | 34 | | | | 100% load | 75% loa | nd 50% l | oad 25% | % load | | | | | | | |
| 3 | 3 1 <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<> | 3 | | | AMPS | ANGLE (DEG) | AMPS | ANGLE | AMP | ANGI | LE | AMPS | ANGLE (DEG) | | | | |
| 37 1 0 0 0 0 0 38 5 2.2 100% 0 0 0 0 39 7 1.06 100% 0 0 0 0 40 11 1.42 100% 0 0 0 0 41 1.3 1.36 100% 0 0 0 0 42 1.7 0.11 100% 0 0 0 0 43 1.9 0.07 100% 0 0 0 0 44 2.3 0.03 100% 0 0 0 0 45 2.5 0.03 100% 0 0 0 0 46 2.9 0 0 0 0 0 0 47 3.1 0 0 0 0 0 0 49 3.7 0 0 0 0 0 0 5 DCLINK VOLTAGE 0 0 0 | 37 1 1 1 1 38 5 2.2 100% 0 0 39 7 1.06 100% 0 0 41 1.12 100% 0 0 0 42 17 0.11 100% 0 0 43 19 0.07 100% 0 0 44 23 0.03 100% 0 0 45 25 0.3 100% 0 0 46 29 0 0 0 0 47 31 0 0 0 0 48 35 0 0 0 0 49 37 0 0 0 0 5 DC LINK VOLTAGE 0 0 0 6 MAX. DC LINK CURRENT 380A 7 INPUT REACTOR (IF ANY) NO 8 D CLINK REATOR (REACTOR/CAPACITOR) NO | 3 | | | | (BEG) | | (DEO) | Ŭ | (DEC | ·) | | (BEG) | | | | |
| 38 5 2.2 100% Image: Constraint of the symbol of t | 38 5 2.2 100% 0 0 39 7 1.06 100% 0 0 0 41 1.32 1.36 100% 0 0 0 42 177 0.11 100% 0 0 0 44 1.33 0.03 100% 0 0 0 44 2.3 0.03 100% 0 0 0 45 2.55 0.03 100% 0 0 0 46 2.9 0 0 0 0 0 47 3.16 0 0 0 0 0 48 3.56 0 0 0 0 0 49 3.5 0 0 0 0 0 40 3.5 0 0 0 0 0 5 DC LINK VOLTAGE 0 0 0 0 5 DC LINK VOLTAGE 1800V 300A 5 DC LINK KOLTOR (IF ANY) 300A 6 MAX DC LINK CURRENT 1800V 6 MAX DC LINK CURREATOR (REACTOR | 37 | | | | | | | | | | | | | | | |
| 39 7 1.06 100% 100% 1 100% 100 | 3 7 1.06 100% 1 1.42 100% | 38 | | 5 | 2.2 | 100% | | | | | | | | | | | |
| 40 11 1.42 10% 6 6 6 41 13 1.36 10% 6 6 6 42 17 0.11 10% 6 6 6 43 19 0.07 10% 6 6 6 44 23 0.03 10% 6 6 6 45 25 0.03 10% 6 6 6 46 29 6 6 6 6 6 47 31 6 6 6 6 6 6 48 35 7 7 7 7 7 7 7 49 37 8 7 7 7 7 7 7 7 7 49 37 9 1 <td>11 1.42 100% Image: constraint of the second second</td> <td>39</td> <td></td> <td>1</td> <td>1.06</td> <td>100%</td> <td></td> | 11 1.42 100% Image: constraint of the second | 39 | | 1 | 1.06 | 100% | | | | | | | | | | | |
| 1 1.36 1.36 10% Image: Constraint of the symbol of | 1 1.3 100% 1 42 17 0.11 100% 1 43 19 0.07 100% 1 44 23 0.03 100% 1 45 25 0.03 100% 1 46 29 1 1 1 47 31 1 1 1 48 35 1 1 1 49 37 1 1 1 49 37 1 1 1 50 41 1 1 1 51 43 1 1 1 52 47 1 1 1 54 1 1 1 1 55 1 1 1 1 56 1 1 1 1 57 7 1 1 1 56 MAX DC LINK VOLTAGE 1800V 56 MAX DC LINK CRACTOR (REACTOR/CAPACITOR) NO 58 DC LINK REACTOR (REACTOR/CAPACITOR) NO 59 9 CONVERTER EFFICIENCY 1800X | 40 | | 17 | 1.42 | 100% | <u> </u> | | | | | <u> </u> | | | | | |
| 43 19 0.07 100% 1 1 1 44 23 0.03 100% 1 1 1 45 25 0.03 100% 1 1 1 46 29 1 1 1 1 1 47 31 1 1 1 1 1 48 35 1 1 1 1 1 1 49 37 1 1 1 1 1 1 1 50 41 1 1 1 1 1 1 1 1 51 43 1 | 43 19 0.07 100% 1 1 1 44 23 0.03 100% 1 1 1 45 25 0.03 100% 1 1 1 46 29 1 1 1 1 1 47 31 1 1 1 1 1 48 35 1 1 1 1 1 1 49 37 1 1 1 1 1 1 1 50 41 1 1 1 1 1 1 1 1 51 43 1 | 42 | | 17 | 1.36 | 100% | | | + | \vdash | | | | | | | |
| 44 23 0.03 100% Image: Constraint of the second sec | 44 23 0.03 100% Image: Constraint of the second sec | 43 | | 19 | 0.11 | 100% | | | + | + | | | | | | | |
| 45 25 0.03 100% Image: Constraint of the second sec | 45 25 0.03 100% 0 0 0 0 46 29 0 0 0 0 0 0 47 31 0 0 0 0 0 0 48 35 0 0 0 0 0 0 49 37 0 0 0 0 0 50 41 0 0 0 0 0 51 43 0 0 0 0 0 52 47 0 0 0 0 0 54 1 0 0 0 0 0 55 DC LINK VOLTAGE 1800V 1800V 1800V 6 MAX. DC LINK CURRENT 380A 1800V 56 DC LINK CURRENT 380A 1800V 58 DC LINK REACTOR (REACTOR/CAPACITOR) NO 1800V 9 CONVERTER EFFICIENCY @ 75% LOAD % 100% LOAD | 44 | _ | 23 | 0.07 | 100% | | | + | + | | | - | | | | |
| 46 29 0 0 0 0 47 31 0 0 0 0 48 35 0 0 0 0 49 37 0 0 0 0 50 41 0 0 0 0 51 43 0 0 0 0 52 47 0 0 0 0 53 49 0 0 0 0 54 5 DC LINK VOLTAGE 1800V 56 MAX. DC LINK CURRENT 380A | 46 29 0 0 47 31 0 0 0 48 35 0 0 0 49 37 0 0 0 50 41 0 0 0 51 43 0 0 0 52 47 0 0 0 53 49 0 0 0 54 5 DC LINK VOLTAGE 1 55 DC LINK CURRENT 380A 57 7 INPUT REACTOR (IF ANY) 58 DC LINK REACTOR (REACTOR/CAPACITOR) NO 59 CONVERTER EFFICIENCY @ 75% LOAD % . @ 100% LOAD | 45 | - | 25 | 0.03 | 100% | | | + | + | | | - | | | | |
| 47 31 0 0 0 48 35 0 0 0 49 37 0 0 0 50 41 0 0 0 51 43 0 0 0 52 47 0 0 0 53 49 0 0 0 54 5 DC LINK VOLTAGE 1800V 56 MAX. DC LINK CURRENT 380A | 47 31 < | 46 | - | 29 | | | | | + | \vdash | | | | | | | |
| 48 35 0 0 0 0 49 37 0 0 0 0 50 41 0 0 0 0 51 43 0 0 0 0 52 47 0 0 0 0 53 49 0 0 0 0 54 | 48 35 35 35 35 49 37 37 37 37 50 41 37 37 37 51 43 37 37 37 52 47 37 37 37 53 49 37 37 37 54 380A 37 380A 55 5 5 5 5 5 5 5 6 MAX. DC LINK CURRENT 380A 57 7 INPUT REACTOR (IF ANY) 58 DC LINK REACTOR (REACTOR/CAPACITOR) NO 59 CONVERTER EFFICIENCY @ 75% LOAD % ,@ 100% LOAD % | 47 | | 31 | | 1 | | | | \mathbf{t} | | | | | | | |
| 49 37 0 0 0 50 41 0 0 0 51 43 0 0 0 52 47 0 0 0 53 49 0 0 0 54 5 DC LINK VOLTAGE 1800V 56 MAX. DC LINK CURRENT 380A | 49 37 0 0 0 0 50 41 0 0 0 0 51 43 0 0 0 0 52 47 0 0 0 0 53 49 0 0 0 0 54 5 DC LINK VOLTAGE 1800V 56 6 MAX. DC LINK CURRENT 380A 57 7 INPUT REACTOR (IF ANY) NO 58 DC LINK REACTOR (REACTOR/CAPACITOR) NO 59 CONVERTER EFFICIENCY @ 75% LOAD % ,@ 100% LOAD % | 48 | | 35 | | 1 | 1 | | | t | | 1 | 1 | | | | |
| 50 41 0 0 0 51 43 0 0 0 52 47 0 0 0 53 49 0 0 0 54 5 5 DC LINK VOLTAGE 1800V 56 6 MAX. DC LINK CURRENT 380A | 50 41 6 6 MAX. DC LINK VOLTAGE 1800V 55 5 DC LINK VOLTAGE 1800V 56 6 MAX. DC LINK CURRENT 380A 57 7 INPUT REACTOR (IF ANY) NO 58 DC LINK REACTOR (REACTOR/CAPACITOR) NO 59 CONVERTER EFFICIENCY @ 75% LOAD % .@ 100% LOAD | 49 | | 37 | | Ī | İ | | | | | İ | | | | | |
| 51 43 1 1 52 47 1 1 53 49 1 1 54 1 1 55 5 DC LINK VOLTAGE 56 6 MAX. DC LINK CURRENT 380A | 51 43 1 1 52 47 1 1 53 49 1 1 54 1 1 55 DC LINK VOLTAGE 1800V 66 MAX. DC LINK CURRENT 380A 57 7 INPUT REACTOR (IF ANY) NO 58 DC LINK REACTOR (REACTOR/CAPACITOR) NO 59 CONVERTER EFFICIENCY @ 75% LOAD % | 50 | | 41 | | | | | T | Ĺ | | | | | | | |
| 52 47 1 53 49 1 54 1 55 5 56 6 6 MAX. DC LINK CURRENT 380A | 52 47 47 53 49 49 54 1800V 55 5 56 MAX. DC LINK CURRENT 56 MAX. DC LINK CURRENT 57 7 58 DC LINK REACTOR (REACTOR/CAPACITOR) 58 DC LINK REACTOR (REACTOR/CAPACITOR) 59 CONVERTER EFFICIENCY | 51 | | 43 | | | | | | | | | | | | | |
| 53 49 54 55 5 56 6 MAX. DC LINK CURRENT 380A | 53 49 54 55 55 5 5 6 MAX. DC LINK CURRENT 380A 57 7 INPUT REACTOR (IF ANY) 8 DC LINK REACTOR (REACTOR/CAPACITOR) 9 CONVERTER EFFICIENCY @ 75% LOAD % | 52 | | 47 | | | | | | | | | | | | | |
| 54 1800V 55 5 DC LINK VOLTAGE 1800V 56 6 MAX. DC LINK CURRENT 380A | 54 54 55 DC LINK VOLTAGE 1800V 6 MAX. DC LINK CURRENT 380A 77 INPUT REACTOR (IF ANY) NO 8 DC LINK REACTOR (REACTOR/CAPACITOR) NO 9 CONVERTER EFFICIENCY @ 75% LOAD % _ @ 100% LOAD % | 53 | | 49 | | | | | | | | | | | | | |
| Dot LINK VOLTAGE 1800V 56 6 MAX. DC LINK CURRENT 380A | 30 5 DC LINK VOLTAGE 1800V 56 6 MAX. DC LINK CURRENT 380A 57 7 INPUT REACTOR (IF ANY) NO 58 8 DC LINK REACTOR (REACTOR/CAPACITOR) NO 59 9 CONVERTER EFFICIENCY @ 75% LOAD % _ @ 100% LOAD % | 54 | | | <u> </u> | | | | | | | | | | | | |
| NAX. UC LINK CURRENT 380A | o MAX. DC LINK CURKENI 380A 57 7 INPUT REACTOR (IF ANY) NO 58 8 DC LINK REACTOR (REACTOR/CAPACITOR) NO 59 9 CONVERTER EFFICIENCY @ 75% LOAD % @ 100% LOAD % | 55 | 5 | DC LINK VOLTA | GE | NT. | | | | | | | | 1800V | | | |
| | or INPUT REACTOR (IF ANY) NU 58 DC LINK REACTOR (REACTOR/CAPACITOR) NO 59 9 CONVERTER EFFICIENCY @ 75% LOAD % , @ 100% LOAD % | 56 | 10 7 | MAX. DC LINK C | | NI | | | | | | | | 380A | | | |
| 3/ / INFUL NU 58 8 DC LINK PEACTOR (PEACTOR) NO | 50 DG LINK REACTOR (REACTOR/CAPACITOR) NO 59 9 CONVERTER EFFICIENCY @ 75% LOAD % | 5/ | 2 | | K (IF A | | | | | | | | | NU | | | |
| V D D NU 59 9 CONVERTER FEEICIENCY @ 75% LOAD % | er 5% LOAD % , er 10% LOAD % | 50 | o Q | | | | AFACII | UK) | | | | | | INU @ 75% I OA | 0 % | @ 100% 040 | % |
| S S SONVENTER EFFICIENCE ₩ 75% LUAD % , @ 100% LUAD % | 58 | 58 | J | GONVERTERE | | | | | | | | | | w /5% LUA | υ 70 , | ⊌ 100% LUAD | 70 |

| | | | | | STAGE | | | | | | |
|----|-----------------|-------------------|-------------------|----------------------------------|---------------|--------------------|--------------|--|--|--|--|
| | | | PROJECT | | DOC NO | | _ | | | | |
| | | | | | 200.110. | | | | | | |
| | | | AREA | | PAGE NO. | 7 OF 8 | | | | | |
| | | | DOCUMENT | DATA SHEET FOR 11kV VFD | | Rev. 0 | - | | | | |
| 1 | MANUL | | | | | | 077/ | | | | |
| 2 | MANU | FACTURER: | | SERVICE: | | EQUIPMENT NO.: | | | | | |
| 3 | | | | INF | ORMATION BY V | /ENDOR | | | | | |
| 4 | Е | DC - AC INVERTE | R DETAILS | | | | | | | | |
| 5 | 1 | SEMICONDUCTOR | R DEVICES (THYRIS | TOR / IGBT / IGCT / ANY OTHER) | | IGBT | | | | | |
| 6 | 2 | INVERTER CONFI | GURATION WITH N | O. OF SEMICONDUCTORS PER BRANC | ЭН | 36 | | | | | |
| 7 | 3 | TYPE OF INVERT | ER | | | VSI | | | | | |
| 8 | 4 | TYPE OF CONTRO | DL | | | FOC | | | | | |
| 9 | 5 | SWITCHING FREC | QUENCY RANGE | | | 800Hz~2000Hz | | | | | |
| 10 | 6 | MAX. OUTPUT VO | LTAGE (AT MIN10 |)%) | | 5% | - | | | | |
| 11 | 7 | MAX OUTPUT CUI | RRENT (AT MIN10 | %) | | 5% | | | | | |
| 12 | 8 | OUTPUT FREQUE | NCY RANGE | | | 0~120Hz | | | | | |
| 13 | 9 | ACCURACY OUTF | UT FREQUENCY | | | 1% | | | | | |
| 14 | 10 | VOLTAGE THD | | | | 3% | | | | | |
| 15 | 11 | CURRENT THD | | | | 3% | | | | | |
| 16 | 12 | VFD OUTPUT VOL | TAGE SURGE (dv/d | t) AT MOTOR TERMINAL | | | | | | | |
| 17 | | a) PH-PH | | | | 1kV(peak)/sec。 | | | | | |
| 18 | Ľ | b) PH-GND | | | | 0.6kV ((peak)/sec. | | | | | |
| 19 | 13 | OUTPUT REACTO | R | | | NO | | | | | |
| 20 | 14 | INVERTER EFFICI | ENCY | | | @75%load% | , @100%load% | | | | |
| 21 | 15 | OVERLOAD CAPA | BILITY OF DRIVE: | | | | | | | | |
| 22 | | a) 125% IN FOR: | | | | 1 min | | | | | |
| 23 | | b) 150% IN FOR | | | | 0.1 min | | | | | |
| 24 | | c) INRUSH CURREN | T 250% IN FOR | | | 3s | | | | | |
| 25 | 16 | OVERALL EFFICIE | ENCY OF DRIVE (EX | CL. MOTOR) AT: | | | | | | | |
| 26 | | a) 100% LOAD | | | | 96% | | | | | |
| 27 | | b) 75% LOAD | | | | 96% | | | | | |
| 28 | | c) 50% LOAD | | | | 96% | | | | | |
| 29 | 17 | 0) 25% LOAD | | = AT- | | 95% | | | | | |
| 30 | 17 | a) 100% LOAD | FACTOR OF DRIVI | E A1. | | 0.92 | | | | | |
| 32 | | b) 75% LOAD | | | | 0.92 | | | | | |
| 33 | | c) 50% LOAD | | | | 0.94 | | | | | |
| 34 | | d) 25% LOAD | | | | 0.95 | | | | | |
| 35 | 18 | TRANSIENT TORO | QUE | | | 200% | | | | | |
| 36 | 19 | TORQUE BOOST | AVAILABLE | | | 130% | | | | | |
| 37 | 20 | MAX TRANSIENT | TORQUE / DURATIO | DN | | 1s | | | | | |
| 38 | 21 | OUTPUT SHORT (| CKT. CAPABILITY A | ND DURATION | | 7us | | | | | |
| 39 | | | | | | | | | | | |
| 40 | н | RECOMMENDED | TYPE, VOLTAGE GI | RADE AND SIZE OF CABLES | | | | | | | |
| 41 | 1 | 11kV SWITCHBO | ARD TO SHIFT TRA | NSFORMER | | by EPC | | | | | |
| 42 | 2 | INPUTSHIFT TRAF | NSFORMER TO VFD | CABINET | | by EPC | | | | | |
| 43 | 3 | VFD SWGR OR TR | RANSFORMER TO N | IOTOR | | by EPC | | | | | |
| 44 | 4 | | <u>د</u> | | | 5,50 | | | | | |
| 44 | - † 5 | SIGNAL CARLES | 0 | | | by EPC | | | | | |
| 46 | 6 | MISC. ALIXII IARV | POWER SUPPLY C | ABLES | | | | | | | |
| 47 | ľ | | | | | | | | | | |
| 48 | | ADDITIONAL DOC | | ED WITH BID | | | | | | | |
| 49 | 1 | REFERENCE LIST | OF PROJECTS SU | BMITTED | | YES | | | | | |
| 50 | 2 | SPARES LIST AS | REQUESTED IN MR | SUBMITTED (YES/NO) | | YES | | | | | |
| 51 | 3 | VENDOR'S VFD S | OFT STARTER INSF | PECTION TEST PLAN OFFERED | | YES | | | | | |
| 52 | | FOR THIS PROJE | CT SUBMITTED. | | | | | | | | |
| 53 | 4 | PRELIMINARY CA | LCULATION & CONI | FIRMATION REGARDING | | No need | | | | | |
| 54 | | REQUIREMENT OF | HARMONIC RESON | IANCE FILTERS SUBMITTED (YES/NO) | | | | | | | |
| 55 | 5 | LIST OF DEVIATIO | ONS WITH JUSTIFIC | ATION SUBMITTED (YES/NO) | | YES | | | | | |
| 56 | | FOR ALL MRQ ATT | ACHMENTS | | | | | | | | |
| 57 | 6 | SLD OF VFDS INC | L. ALL EQUIPMENT | (YES/NO) | | YES | | | | | |
| 58 | | | | | | | | | | | |

| | | | | STAGE | Det | ailed Design | | |
|---|--|--|---|---|---|---|----------------------------|----------|
| | PROJECT | | | DOC. NO. | | | | |
| | AREA | | | PAGE NO. | | 8 OF 8 | | |
| | DOCUMENT | DATA SHEET FOR 11k | V VFD | | | Rev. 0 | | |
| MANUFACTURER: | | | SERVICE: | | | EQUIPMENT NO .: | QTY | : |
| | | | | | | SIZE: | | |
| NOTES : | | | | | | | | |
| 1. VFD VENDOR to fur | nish data marked as | * with the Technical Bid Sul | bmission as a Mi | nimum requireme | ent. Also refer to Tech | inical. | | |
| Bid Tabulation (atta | ached to MR) to be fi | illed in by VENDOR and sub | mitted with Bid. | | | | | |
| 2."HOLD" is a tentative va | alue. If there is any c | hange later, this value will b | e corrected. Foll | ow this value befo | ore receiving the corr | ection, | | |
| 3. VFD VENDOR to include | de Cable sizing calcu | lation for all cables within hi | is battery limit ar | d provide the cat | les information. EPC | CONTRACTOR will supply and instal | the cables as per VEND | OR's des |
| 4.VFD VENDOR to include | e any series comper | sation devices if required du | ue to the motor p | ower cable length | n specified in this data | a sheet (Note 15). | | |
| 5.An interlocks feature to | prevent access to liv | e parts in VFD panel to be p | provided. | | | | | |
| 6. All protection and alarm | n (refer to "999-ELE- | SPC-0005 Specification for | Variable Frequer | cy Drive(VFD)") | equipment for VFDS | shall be advised by VFD VEBDOR. | | |
| 7.Spares supply shall be a | as per MR. | | | | | | | |
| 8.Earthing facility for pow | er cables to be provi | ded in the VFD panels. | | | | | | |
| 9. Language on equipmer | t and on document | ation shall be English. | | | | | | |
| 10 Type of Cooling for th | e VFD (Air) shall be | decided by Manufacturer C | Cooling system st | all be redundant | | | | |
| 11 Current Harmonic prof | ile unto order 50 sha | I be furnished for the VED b | w the VED VEN | OR at drive tran | sformer primary which | s the Point of Common Coupling (P | C) for VED | |
| 12 VED VENDOR to confi | irm if torsional vibrat | ion study and any precaution | | ting torques is re | commended for starti | ng applications | | |
| 13 VED VENDOR to com | torface with EPC Co | ntractor/ Rower Study Const | ultant regarding of | arrying out the H | armonic Measuremen | ng applications. | this activity under his so | 000 |
| 13.VFD VENDOR Shall In | d manifesting lagin al | nilacioi/ Fower Study Const | unant regarding t | arrying out the H | | trianing of the VEDC Vendor shall include | this activity under his so | ppe. |
| 14. The fault diagnostic an | | tali be equipped with a mem | | alan mormation | regarding the cause t | in tripping of the VFDS vendor shall of | | penou io |
| 15.Application of VFD sha | an be as per ronowing | j lable : | | | | | | |
| 16.Rating shown are indic | ative. Final rating sh | all be selected based on driv | ven equipment re | equirements. | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | 1 | | • | | 1 |
| | | | RATING (KW |) STAF | RTING/SPEED | ESTIMATED 11kV POWER CABL | E | 1 |
| TAG | NO. | DRIVEN EQUIPMENT | RATING (KW (Note-16) |) STAF AD | RTING/SPEED JUSTMENT | ESTIMATED 11kV POWER CABL LENGTH(FROM VFD TO MOTOR | E REMARKS | ⊢ |
| TAG I | NO. | DRIVEN EQUIPMENT | RATING (KW (Note-16) |) STAF AD | RTING/SPEED JUSTMENT | ESTIMATED 11kV POWER CABL LENGTH(FROM VFD TO MOTOF | E REMARKS | |
| TAG I | NO. | DRIVEN EQUIPMENT | RATING (KW (Note-16) 1200 |) STAF AD SPEED | RTING/SPEED JUSTMENT | ESTIMATED 11kV POWER CABL LENGTH(FROM VFD TO MOTOF 360m | E REMARKS | |
| TAG I | NO. -01 | DRIVEN EQUIPMENT KM-02A | RATING (KW (Note-16) 1200 |) STAF AD SPEED | RTING/SPEED JUSTMENT ADJUSTMENT | ESTIMATED 11kV POWER CABL LENGTH(FROM VFD TO MOTOF 360m | E REMARKS | |
| TAG I | NO. -01 | DRIVEN EQUIPMENT KM-02A | RATING (KW (Note-16) 1200 |) STAF AD SPEED | RTING/SPEED JUSTMENT ADJUSTMENT | ESTIMATED 11kV POWER CABL LENGTH(FROM VFD TO MOTOF 360m | E REMARKS | |
| TAG I SS02-VFD SS02-VFD | -01 | DRIVEN EQUIPMENT KM-02A KM-02B | RATING (KW (Note-16) 1200 1200 |) STAF AD SPEED SPEED | RTING/SPEED JUSTMENT ADJUSTMENT | ESTIMATED 11kV POWER CABL LENGTH(FROM VFD TO MOTOR 360m 360m | E REMARKS | |
| TAG I SS02-VFD | NO. -01 -02 | DRIVEN EQUIPMENT KM-02A KM-02B | RATING (KW (Note-16) 1200 1200 |) STAF AD SPEEC SPEEC | TING/SPEED JUSTMENT P ADJUSTMENT | ESTIMATED 11kV POWER CABL LENGTH(FROM VFD TO MOTOR 360m 360m | E REMARKS | |
| TAG I SS02-VFD SS02-VFD | -01 | DRIVEN EQUIPMENT KM-02A KM-02B | RATING (KW (Note-16) 1200 |) STAF AD SPEED SPEED | RTING/SPEED JUSTMENT ADJUSTMENT | ESTIMATED 11kV POWER CABL LENGTH(FROM VFD TO MOTOR 360m 360m | E REMARKS | |
| TAG SS02-VFD SS02-VFD SS02-VFD | NO. -01 -02 -03 | DRIVEN EQUIPMENT KM-02A KM-02B KM-02C | RATING (KW (Note-16) 1200 1200 1200 |) STAP AD SPEED SPEED SPEED | RTING/SPEED JUSTMENT ADJUSTMENT ADJUSTMENT | ESTIMATED 11kV POWER CABL LENGTH(FROM VFD TO MOTOR 360m 360m 360m | E REMARKS | |
| TAG SS02-VFD SS02-VFD SS02-VFD | NO. -01 -02 -03 | DRIVEN EQUIPMENT KM-02A KM-02B KM-02C | RATING (KW (Note-16) 1200 1200 1200 |) STAF AD SPEEC SPEEC SPEEC | RTING/SPEED JUSTMENT ADJUSTMENT ADJUSTMENT ADJUSTMENT | ESTIMATED 11kV POWER CABL LENGTH(FROM VFD TO MOTOR 360m 360m 360m | E REMARKS | |
| TAG SS02-VFD SS02-VFD SS02-VFD SS02-VFD | NO. -01 -02 -03 | DRIVEN EQUIPMENT KM-02A KM-02B KM-02C PM-04A | RATING (KW (Note-16) 1200 1200 1200 2200 |) STAR AD SPEED SPEED SPEED SPEED | ADJUSTMENT | ESTIMATED 11kV POWER CABL LENGTH(FROM VFD TO MOTOR 360m 360m 360m 470m | E REMARKS | |
| TAG SS02-VFD SS02-VFD SS02-VFD SS02-VFD | NO. -01 -02 -03 -04 | DRIVEN EQUIPMENT KM-02A KM-02B KM-02C PM-04A | RATING (KW (Note-16) 1200 1200 1200 2200 |) STAR AD SPEED SPEED SPEED SPEED | ADJUSTMENT | ESTIMATED 11kV POWER CABL LENGTH(FROM VFD TO MOTOF 360m 360m 470m | E REMARKS | |
| TAG SS02-VFD SS02-VFD SS02-VFD SS02-VFD SS02-VFD | NO. -01 -02 -03 -04 | DRIVEN EQUIPMENT KM-02A KM-02B KM-02C PM-04A | RATING (KW (Note-16) 1200 1200 1200 2200 |) STAR AD SPEED SPEED SPEED SPEED | ADJUSTMENT | ESTIMATED 11kV POWER CABL LENGTH(FROM VFD TO MOTOF 360m 360m 470m | E REMARKS | |
| TAG SS02-VFD SS02-VFD SS02-VFD SS02-VFD SS02-VFD SS02-VFD | NO. -01 -02 -03 -04 | DRIVEN EQUIPMENT KM-02A KM-02B KM-02C PM-04A PM-04B | RATING (KW (Note-16) 1200 1200 1200 2200 2200 |) STAR AD SPEED SPEED SPEED SPEED SPEED | ADJUSTMENT | ESTIMATED 11kV POWER CABL LENGTH(FROM VFD TO MOTOR 360m 360m 470m 470m | E REMARKS | |
| TAG SS02-VFD SS02-VFD SS02-VFD SS02-VFD SS02-VFD SS02-VFD | NO. -01 -02 -03 -04 | DRIVEN EQUIPMENT KM-02A KM-02B KM-02C PM-04A PM-04B | RATING (KW (Note-16) 1200 1200 1200 2200 2200 |) STAR AD SPEED SPEED SPEED SPEED SPEED | RTING/SPEED JUSTMENT P ADJUSTMENT P ADJUSTMENT P ADJUSTMENT P ADJUSTMENT | ESTIMATED 11kV POWER CABL LENGTH(FROM VFD TO MOTOR 360m 360m 470m 470m | E REMARKS | |
| TAG SS02-VFD SS02-VFD SS02-VFD SS02-VFD SS02-VFD | NO. -01 -02 -03 -04 -05 | DRIVEN EQUIPMENT KM-02A KM-02B KM-02C PM-04A PM-04B | RATING (KW (Note-16) 1200 1200 1200 2200 2200 |) STAP AD SPEED SPEED SPEED SPEED SPEED | RTING/SPEED JUSTMENT P ADJUSTMENT P ADJUSTMENT P ADJUSTMENT P ADJUSTMENT | ESTIMATED 11kV POWER CABL LENGTH(FROM VFD TO MOTOR 360m 360m 470m 470m | E REMARKS | |
| TAG SS02-VFD SS02-VFD SS02-VFD SS02-VFD SS02-VFD SS02-VFD | NO. -01 -02 -03 -04 -05 | DRIVEN EQUIPMENT KM-02A KM-02B KM-02C PM-04A PM-04B | RATING (KW (Note-16) 1200 1200 2200 2200 |) STAP AD SPEED SPEED SPEED SPEED | RTING/SPEED JUSTMENT P ADJUSTMENT P ADJUSTMENT P ADJUSTMENT P ADJUSTMENT P ADJUSTMENT | ESTIMATED 11kV POWER CABL LENGTH(FROM VFD TO MOTOR 360m 360m 470m 470m | E REMARKS | |
| TAG SS02-VFD SS02-VFD SS02-VFD SS02-VFD SS02-VFD SS02-VFD | NO. -01 -02 -03 -04 -05 | DRIVEN EQUIPMENT KM-02A KM-02B KM-02C PM-04A PM-04B | RATING (KW (Note-16) 1200 1200 1200 2200 2200 |) STAR AD SPEED SPEED SPEED SPEED | ADJUSTMENT ADJUSTMENT ADJUSTMENT ADJUSTMENT ADJUSTMENT ADJUSTMENT ADJUSTMENT | ESTIMATED 11kV POWER CABL LENGTH(FROM VFD TO MOTOR 360m 360m 470m 470m | E REMARKS | |
| TAG SS02-VFD SS02-VFD SS02-VFD SS02-VFD SS02-VFD SS02-VFD | NO. -01 -02 -03 -04 -05 | DRIVEN EQUIPMENT KM-02A KM-02B KM-02C PM-04A PM-04B | RATING (KW (Note-16) 1200 1200 2200 2200 |) STAR AD SPEED SPEED SPEED SPEED | ADJUSTMENT ADJUSTMENT ADJUSTMENT ADJUSTMENT ADJUSTMENT ADJUSTMENT ADJUSTMENT | ESTIMATED 11kV POWER CABL LENGTH(FROM VFD TO MOTOF 360m 360m 470m 470m | E) REMARKS | |
| TAG SS02-VFD SS02-VFD SS02-VFD SS02-VFD SS02-VFD | NO. -01 -02 -03 -04 -05 | DRIVEN EQUIPMENT KM-02A KM-02B KM-02C PM-04A PM-04B | RATING (KW (Note-16) 1200 1200 2200 2200 |) STAR AD SPEED SPEED SPEED SPEED | ADJUSTMENT ADJUSTMENT ADJUSTMENT ADJUSTMENT ADJUSTMENT ADJUSTMENT ADJUSTMENT | ESTIMATED 11kV POWER CABL LENGTH(FROM VFD TO MOTOF 360m 360m 470m 470m | E REMARKS | |