

GMD STATOR - OFF LOAD DIS CONNECTOR DATA SHEET

DATA

Model No.	SD.GMD.2500-M2	SD.GMD.3000-M2	SD.GMD.2500-S	SD.GMD.3000-S
Application	Stator	Stator	Stator	Stator
Installation Altitude, Ambient temperature	≤ 2000m, ≤ 40°C 2000m < h ≤ 4500m, ≤ 25°C	≤ 2000m, ≤ 40°C 2000m < h ≤ 4500m, ≤ 25°C	≤ 2000m, ≤ 40°C 2000m < h ≤ 4500m, ≤ 25°C	≤ 2000m, ≤ 40°C 2000m < h ≤ 4500m, ≤ 25°C
Rated normal current	≤ 2500A	≤ 2900A	≤ 2500A	≤ 2900A
Mounting	Motor Flange	Motor Flange	Free standing	Free Standing
Exposed to solar radiation	Refer sun roof and sun shield options	Refer sun roof and sun shield options	Refer sun roof and sun shield options	Refer sun roof and sun shield options
HV switchgear				
General arrangement drawing	G01-SD.GMD-2500-M2 Sht's 1 to 4	G01-SD.GMD-3000-M2 Sht's 1 to 4	G01-SD.GMD-2500-S Sht's 1 to 6	G01-SD.GMD-3000-S Sht's 1 to 6
Standard	IEC62271-200	IEC62271-200	IEC62271-200	IEC62271-200
Installation	Outdoors	Outdoors	Outdoors	Outdoors
Phases (poles)	3	3	3	3
Rated voltage	12kV	12kV	12kV	12kV
Rated frequency	50Hz	50Hz	50Hz	50Hz
Rated normal current	2500A / 2900A	3250A	2500A / 2900A	3250A
Overload current 24hr	2750A	3200A	2750A	3200A
Overload current 5 times per hour	3750A/30s	4300A/30s	3750A/30s	4300A/30s
Service frequency	0-6.2Hz	0-6.2Hz	0-6.2Hz	0-6.2Hz
Rated power frequency withstand (≤1000m)	28/32kV	28/32kV	28/32kV	28/32kV
(≤ 4500m)	20/23kV	20/23kV	20/23kV	20/23kV
Lightning impulse voltage withstand (≤1000m)	60/85kV	60/85kV	60/85kV	60/85kV
(≤ 4500m)	40/46kV	40/46kV	40/46kV	40/46kV
Service Voltage	7.2kV	7.2kV	7.2kV	7.2kV
Rated short-time withstand current	50kA	50kA	50kA	50kA
Circuit diagrams (typical)	E01-SD.GMD Sht's 1 to 2	E01-SD.GMD Sht's 1 to 2	E01-SD.GMD Sht's 1 to 2	E01-SD.GMD Sht's 1 to 2
Labeling details (typical)	L01-SD.GMD Sht's 1 to 3	L01-SD.GMD Sht's 1 to 3	L01-SD.GMD Sht's 1 to 3	L01-SD.GMD Sht's 1 to 3
Type	LSC1	LSC1	LSC1	LSC1
Degree of protection for enclosure	IP56	IP56	IP56	IP56
Enclosure material	2.5mm Thk Galvabond (Fully Welded)	2.5mm Thk Galvabond (Fully Welded)	2.5mm Thk Galvabond (Fully Welded)	2.5mm Thk Galvabond (Fully Welded)
Internal colour	Matt Black	Matt Black	Matt Black	Matt Black
External Colour standard - signal orange	RAL2010	RAL2010	RAL2010	RAL2010
Roof mounted pressure relief vent	Yes x 1 - 500x300mm	Yes x 1 - 500x300mm	Yes x 2 - 500x300mm	Yes x 2 - 500x300mm
External access hinged door padlockable	Yes - with 5 point latching	Yes - with 5 point latching	Yes - with 5 point latching	Yes - with 5 point latching
Extrenal access hinged door - door stay	Yes at bottom	Yes at bottom	Yes at bottom	Yes at bottom
External access hinged door earthing	Stud to Stud with 35mm ² Conductor	Stud to Stud with 35mm ² Conductor	Stud to Stud with 35mm ² Conductor	Stud to Stud with 35mm ² Conductor
Safety glass window for contact viewing	Yes x 2 - 200x100x10mm thick	Yes x 2 - 200x100x10mm thick	Yes x 2 - 200x100x10mm thick	Yes x 2 - 200x100x10mm thick
Provision for future cable side earth switch	Yes	Yes	Yes	Yes
External HV cable compartment	No	No	Yes	Yes
External cable compartment cover	No	No	Yes - Bolted	Yes - Bolted
Hot dipped galvanised ground mount stand	No	No	Yes - Supplied loose	Yes - Supplied loose
Interlocking (ON and OFF positions)	Electrical blocking magnet	Electrical blocking magnet	Electrical blocking magnet	Electrical blocking magnet
Anti - condensation heaters 220V 50Hz	2 x 75 Watt	2 x 75 Watt	2 x 75 Watt	2 x 75 Watt
HV disconnectors				
Standard	IEC62271-102	IEC62271-102	IEC62271-102	IEC62271-102
Phases (poles)	3	3	3	3
Rated voltage	12kV	12kV	12kV	12kV
Rated frequency	50Hz	50Hz	50Hz	50Hz
Rated power frequency withstand	28/32kV	28/32kV	28/32kV	28/32kV
Lightning impulse voltage withstand	75/85kV	75/85kV	75/85kV	75/85kV
Rated normal current	4000A	6000A	4000A	6000A
Type	OJON3-12 A4000	OJON3-12 A6000	OJON3-12 A4000	OJON3-12 A6000
Manual mechanism	OJO-ZA-1	OJO-ZA-1	OJO-ZA-1	OJO-ZA-1
Auxiliary switch 6 C/O	OLAN6-AL1	OLAN6-AL1	OLAN6-AL1	OLAN6-AL1
Rated voltage of auxiliaries	220/110V AC 50Hz or 24V DC	220/110V AC 50Hz or 24V DC	220/110V AC 50Hz or 24V DC	220/110V AC 50Hz or 24V DC
Auxiliaries wired to terminals	2 N/O and 2 N/C	2 N/O and 2 N/C	2 N/O and 2 N/C	2 N/O and 2 N/C
Aux switch support and link	OLAN-ZT4	OLAN-ZT4	OLAN-ZT4	OLAN-ZT4
Operating handle	OJO-ZAK2	OJO-ZAK2	OJO-ZAK2	OJO-ZAK2
Dis connector padlockable	Yes - Open and Closed 6mm Shank	Yes - Open and Closed 6mm Shank	Yes - Open and Closed 6mm Shank	Yes - Open and Closed 6mm Shank
Environment				
Ambient air temperature	-20 to 40° C	-20 to 40° C	-20 to 40° C	-20 to 40° C
Altitude, Average max. temperature over 24 hrs	≤2000m, ≤35° C	≤2000m, ≤35° C	≤2000m, ≤35° C	≤2000m, ≤35° C
Humidity, average over 24 hrs	95%	95%	95%	95%
Salt	Nil	Nil	Nil	Nil
Dust	Substantial	Substantial	Substantial	Substantial
Vibration sinusoidal	TBA	TBA	TBA	TBA
Vibration seismic	Not applicable	Not applicable	Not applicable	Not applicable
Solar radiation				
Under roof (negligible exposure)	No additional protection	No additional protection	No additional protection	No additional protection
Exposed to sun	Sunscreens, T,L,R	Sunscreens, T,L,R	Sunscreens, T,L,R	Sunscreens, T,L,R

DATA

Model No.	SD.GMD.2500-M2	SD.GMD.3000-M2	SD.GMD.2500-S	SD.GMD.3000-S
Application	Stator	Stator	Stator	Stator
Interfaces				
Terminal and flange arrangement	41B8G589	41B8G589	N.A.	N.A.
Flange type	Type 2	Type 2	N.A.	N.A.
Cables bottom entry (copper)	Incoming 6 x 1 core 400mm ² or 750 kcmil / phase	Incoming 6 x 1 core 400mm ² or 750 kcmil / phase	Incoming and Outgoing 6 x 1 core 400mm ² or 750 kcmil / phase	Incoming and Outgoing 6 x 1 core 500mm ² or 750 kcmil / phase
Cable connection points	2 x 120x10 Cu Silver plated 6µm	2 x 200x10 Cu Silver plated 6µm	2 x 120x10 Cu Silver plated 6µm	4 x 120x10 Cu Silver plated 6µm
Cable lugs, single hole	LCN75 Lugs with 2 x M12 bolts	LCN75 Lugs with 2 x M12 bolts	LCN75 Lugs with 2 x M12 bolts	LCN75 Lugs with 2 x M12 bolts
Bottom removable gland plate	Aluminium 12 mm	Aluminium 12 mm	Aluminium 12 mm	Aluminium 12 mm
LV Control terminals	4mm ² - Tunnel screwed	4mm ² - Tunnel screwed	4mm ² - Tunnel screwed	4mm ² - Tunnel screwed
Earthing	30x6 Cu Earth bar with 2xM12 external studs	30x6 Cu Earth bar with 2xM12 external studs	30x6 Cu Earth bar with 2xM12 external studs	30x6 Cu Earth bar with 2xM12 external studs
Exclusions	Stator flexible connections and neutral shorting bar	Stator flexible connections and neutral shorting bar	N/A	N/A
Mounting height above operating platform	Refer general arrangement drawing	Refer general arrangement drawing	Refer general arrangement drawing	Refer general arrangement drawing
Operation height above platform	Refer general arrangement drawing	Refer general arrangement drawing	Refer general arrangement drawing	Refer general arrangement drawing
Panel nett size HxWxD excluding sun roof and sun shields	1875x1075x930	1875x1375x930	2115x1075x930	2115x1375x930
Panel nett weight excluding sun roof and sun shields	750 kg's	850 kg's	850 kg's	950 kg's
Crating details drawing	G02-SD-GMD Sheet 1	G02-SD-GMD Sheet 1	G02-SD-GMD Sheet 1	G02-SD-GMD Sheet 1
Shipping dimensions packed: Size HxWxD	2250x1255x1050	2250x1555x1050	2250x1255x1600	2250x1555x1600
Shipping weights, packed approx. kg	850 kg's	970 kg's	980 kg's	1100 kg's
Options				
Motor side fault make earth switch with mechanical interlock to dis connector	Yes available - E24-275	Yes available - E24-275	Yes available - E24-275	Yes available - E24-275
Motor side fault make earth switch auxiliaries wired to terminals	Yes available - 2 N/O and 2 N/C	Yes available - 2 N/O and 2 N/C	Yes available - 2 N/O and 2 N/C	Yes available - 2 N/O and 2 N/C
Key interlock switch and disconnecter key lock with "Local Isolation Can Proceed" Indicator	Yes available - Fortress M Gaurd Refer Interlocking scheme data sheet for operation.	Yes available - Fortress M Gaurd Refer interlocking scheme data sheet for operation.	Yes available - Fortress M Gaurd Refer interlocking scheme data sheet for operation.	Yes available - Fortress M Gaurd Refer interlocking scheme data sheet for operation.
Front access door key interlock key lock.	Yes available - Fortress M Gaurd Refer Interlocking scheme data sheet for operation.	Yes available - Fortress M Gaurd Refer interlocking scheme data sheet for operation.	Yes available - Fortress M Gaurd Refer interlocking scheme data sheet for operation.	Yes available - Fortress M Gaurd Refer interlocking scheme data sheet for operation.
Dis connector motorised operation	Yes available - 220Vdc	Yes available - 220Vdc	Yes available - 220Vdc	Yes available - 220Vdc
Thermographic IR windows for monitoring	Yes available - 1 set of (3) for each area to be monitored. Recommend (2) sets	Yes available - 1 set of (3) for each area to be monitored. Recommend (2) sets	Yes available - 1 set of (3) for each area to be monitored. Recommend (3) sets	Yes available - 1 set of (3) for each area to be monitored. Recommend (3) sets
Mechanical number of operations counter	Yes - available	Yes - available	Yes - available	Yes - available
Internal panel light with external pushbutton	Yes available - 220Vac 50Hz	Yes available - 220Vac 50Hz	Yes available - 220Vac 50Hz	Yes available - 220Vac 50Hz
Remote earth connection balls including earth bar attachment point	Yes available - 1 set of (4) for each area to be earthed. Recommend (2) sets	Yes available - 1 set of (4) for each area to be earthed. Recommend (2) sets	Yes available - 1 set of (4) for each area to be earthed. Recommend (2) sets	Yes available - 1 set of (4) for each area to be earthed. Recommend (2) sets
Sun roof supplied loose.	Yes available - Painted same colour as panel exterior.	Yes available - Painted same colour as panel exterior.	Yes available - Painted same colour as panel exterior.	Yes available - Painted same colour as panel exterior.
Sun shields front.	Yes available - Painted gloss white	Yes available - Painted gloss white	Yes available - Painted gloss white	Yes available - Painted same gloss
Sun shields sides.	Yes available - Painted gloss white	Yes available - Painted gloss white	Yes available - Painted gloss white	Yes available - Painted same gloss