

Manual Motor Control Switches and Disconnects

GS1 and GS2 Fusible and LK4 Nonfusible Disconnect Switches

Table 26: GS1 and GS2 Fusible Disconnect Switches

UL and CSA

Catalog Number	GS1DDU3 (compact)	GS1DU3 (compact)	GS2EEU3	GS2EU3N	GS2GU3N	GS2JU3N	GS2MU3N	GS2QU3N	GS2SU3	GS2TU3
Rating (A)	30	30	30	30	60	100	200	400	600	800
Operating Voltage (V)	600	600	600	600	600	600	600	600	600	600
Max hp/Max Motor FLA Current Three Phase (hp/A)										
240 V	7.5/22	7.5/22	7.5/22	7.5/22	15/42	30/80	60/154	125/312	200	200
480 V	15/21	15/21	15/21	15/21	30/40	60/77	125/156	250/302	400	500
600 V	20/22	20/22	20/22	20/22	50/52	75/77	150/144	350/336	500	500
125 Vdc	3/25	3/25	3/25	3/25	5/40	—	—	—	—	—
250 Vdc	5/20	5/20	5/20	5/20	10/38	20/72	40/140 ¹	50/173 ¹	—	—
Short Circuit Rating w/Fuses (kA)	100	100	100	100	100	200	200	200	200	200
Fuse Class	CC	J	CC	J	J	J	J	J	J	L
Fuse Rating (A)	30	30	30	30	60	100	200	400	600	800
Endurance (no. of operations)										
Electrical Endurance	6000	6000	6000	6000	6000	6000	6000	1000	1000	1000
Mechanical Endurance	10000	10000	10000	10000	10000	10000	8000	6000	5000	5000
Dimensions 3 Pole										
H in. (mm)	4.56 (116)	4.56 (116)	5.31 (135)	5.35 (136)	5.35 (136)	11.46 (291)	7.67 (195)	15.34 (390)	11.18 (284)	11.18 (284)
W in. (mm)	3.8 (97)	4.15 (105)	4.92 (125)	5.87 (149)	5.87 (149)	5.87 (149)	7.72 (196)	10.19 (259)	11.81 (300)	11.81 (300)
D in. (mm)	3.3 (84)	3.9 (99)	3.9 (99)	4.84 (123)	4.84 (123)	4.81 (122)	5.11 (130)	7.08 (180)	9.84 (250)	9.84 (250)
Shaft Size Square, in.	0.2 x 0.2	0.2 x 0.2	0.4 x 0.4	0.4 x 0.4	0.4 x 0.4	0.4 x 0.4	0.4 x 0.4	0.4 x 0.4	0.59 x 0.59	0.59 x 0.59
Shaft Size Square, mm.	5 x 5	5 x 5	10 x 10	10 x 10	10 x 10	10 x 10	10 x 10	10 x 10	15 x 15	15 x 15
Switch Operating Torque, lb. in.	21	21	53	88	88	88	106	132	350	350
Terminal Lug Kits	Integrated	Integrated	Standard	Standard	Integrated	Integrated	GS1AW403	GS1AW603	GS1AW503	GS1AW503
Wire Range AWG								350 MCM-#6		
min (mm ²)	#14 (2)	#14 (2)	#14 (2)	#14 (2)	#10 (6)	#12 (34)	#6 (16)	GS1AW606	2 x 2 (34)	2 x 2 (34)
max (mm ²)	#10 (6)	#10 (6)	#10 (6)	#6 (13)	#6 (16)	#1 (42)	#300 (152)	600 MCM-#4	2 x 600 (304)	2 x 600 (304)
Wire Tightening, lb. in. (N•m)	27 (3)	27 (3)	48 (5.4)	58 (6.6)	31 (3.5)	35.4 (4)	275 (8.5)	or	500 (56.5)	500 (56.5)
Lug Mounting, lb. in. (N•m)	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	160 (18.1)	250 MCM-#10	310 (35.0)	310 (35.0)
Auxiliary Contacts										
NEMA/UL Rating, AC	A600	A600	A600	A600	A600	A600	A600	A600	A600	A600
NEMA/UL Rating, DC	N600	N600	N600	N600	N600	N600	N600	N600	N600	N600

IEC

Catalog Number	GS1DDU3	GS1DU3	GS2EEU3	GS2EU3N	GS2GU3N	GS2JU3N	GS2MU3N	GS2QU3N	GS2SU3	GS2TU3
Rating (A)	32	32	32	32	63	100	200	400	630	800
Rated Insulation Voltage Ui (V)	690	690	750	750	750	750	750	800	1000	1000
Rated Impulse Voltage (Uimp)	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	12 kV	12 kV
Operation Current Ie										
400 V AC	A									
	AC 22A	32	32	32	32	100	200	400	630	800
	AC 23A	32	32	32	32	100	200	400	630	800
690 V AC	AC 22A	32	32	32	32	100	200	400	630	800
	AC 23A	32	32	32	32	100	200	250	630	630
Motor Power (kW)										
400 Vac	AC 23A	15	15	15	15	51	100	220	355	450
500 Vac	AC 23A	18.5	18.5	18.5	18.5	63	140	220	450	560
690 Vac	AC 23A	25	25	25	25	90	185	220	600	600
Maximum Peak let through Current, kA peak	5.5	5.5	7.6	17.6	17.6	22	32	36	77	77
Connection										
Min. Cu Cable Section (mm ²)	2	2	2	2	6	34	16	2 x 16	2 x 34	2 x 40 x 5
Min. Cu Busbar Section (mm ²)	—	—	—	—	—	—	—	—	—	—

¹ 3 poles in series in one of the following conditions: 3 poles on +, 2 poles on + and 1 on -, 1 pole on + and 2 on -, 3 poles on -.

Ambient air temperature

Operating temperature: -20 to +70 °C

Storage temperature: -40 to +80 °C