

GF2012088 ROTARY CAM SWITCH GF SERIES, STAR-DELTA MOTOR STARTER SWITCH 20A, FOR electric REAR MOUNTING WITH RED/YELLOW HANDLE PADLOCKABLE IN 0, DOOR COUPLING AND PROTECTION COVERS, FRONT PLATE 48X48MM

Product designation				Rotary cam
-	ion			switches GF20
Product type designat General characteristic				GF20
Switching diagram	0			12 - Star-delta motor starter switch
N° of elements				4
Mounting form				O88 - Rear mounting with red/yellow handle padlockable in 0, door coupling and protection covers
Contact characteristic				
Rated insulation voltag		IEC/EN UL/CSA	V V	480 240
Rated impulse withsta			kV	4
Conventional free air t	nermai current ith	IEC/EN UL/CSA	A A	20 15
Rated operational volt	age		V	480
Rated operational imp			kV	4
Maximum fuse size fo	r short-circuit protection In (gG)			
		10kA	A	20
		15kA 25kA	A	20 20
Rated short time curre	ent Icw	20KA	A	20
		1s	kA	250
Conductivity				10/5 mA/V
Operational current le				
	AC1/AC21A		А	20
	AC15			
		110V	А	10
		220/230V	А	8
		380/400V	A	6
Rated operational pov				
	Three-phase AC-3	220/230V	kW	3
		380/440V	kW	5
	Single-phase AC-3	000/1107		0
		110V	kW	0.5
		220/230V	kW	1.5
		380/440V	kW	2
	Three-phase AC23A			
		220/230V	kW	4
	Single-phase AC23A	380/440V	kW	7.5
	Single-phase A020A	110V	kW	0.75
		220/230V	kW	2
		380/440V	kW	2.5

GF2012O88

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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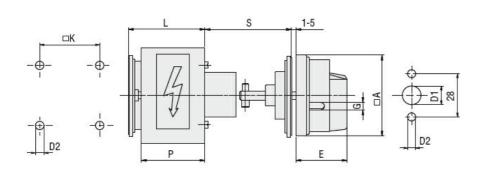
ENERGY AND AUTOMATION

Rated operational current in DC DC21A 48V A 20 60V A 20 110V A 4 22V A 0.7 440V A 0.2 DC13 24V A 6 60V A 3 110V A 4 6 60V A 3 110V A 1 220V A 0.4 40V A 6 60V A 3 110V A 1 220V A 0.4 Mechanical features W 0.8 Mechanical features W 0.8 Mechanical features Nm 0.5 Conductor size AWG - Rigid cable Max NMG 12 Max MUG 12 Conductor size (IEC) - Flexible cable Min mm 0.5 Max mm ² 2.5 Conductor size (IEC) - Rigid cable min mm ² 2.5 Max mm ² 2.5 Motor power					
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$\begin{tabular}{ c c c c } \hline Max & AWG & 12 \\ \hline AWG - Flexible cable & & & & & & & & & & & & & & & & & & &$	A	AWG - Rigid cable			
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$\begin{tabular}{ c c c c c } \hline AWG - Flexible cable & min & AWG & 20 & Max & AWG & 12 & & & & & & & & & & & & & & & & & $			Max	AWG	12
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$\begin{tabular}{ c c c c c c c } \hline Max & mm^2 & 2.5 \\ \hline Conductor size (IEC) - Rigid cable & min & mm^2 & 0.5 \\ \hline Max & mm^2 & 2.5 \\ \hline Max & mm^2 & -10 \\ \hline Max &$	(Conductor size (IEC) - Flexible cable			
$\begin{tabular}{ c c c c c c } \hline Conductor size (IEC) - Rigid cable & min & mm^2 & 0.5 & Max & mm^2 & 2.5 & Max & mm^2 & 2.5 & cycles & 1x10^6 & UL technical data & & & & & & & & & & & & & & & & & & $			min	mm²	0.5
$\begin{tabular}{ c c c c c c } \hline Conductor size (IEC) - Rigid cable & min & mm^2 & 0.5 & Max & mm^2 & 2.5 & Max & mm^2 & 2.5 & cycles & 1x10^6 & UL technical data & & & & & & & & & & & & & & & & & & $			Max	mm²	2.5
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$\begin{tabular}{ c c c c } \hline Max & mm^2 & 2.5 \\ \hline Mechanical life & cycles & 1x10^6 \\ \hline UL technical data & & & & & & \\ \hline Motor power for direct-on-line control & & & & & & \\ \hline for three-phase motor & & & & & & \\ \hline for single-phase motor & & & & & & \\ \hline for single-phase motor & & & & & & \\ \hline 240V & HP & 3 & & & \\ \hline Ambient conditions & & & & & & \\ \hline Ambient conditions & & & & & & \\ \hline Temperature & & & & & & \\ \hline Operating temperature & & & & & & \\ \hline Max & ^{\circ}C & -25 & & \\ \hline max & ^{\circ}C & +55 & \\ \hline Storage temperature & & & & & \\ \hline min & ^{\circ}C & -40 & & \\ \hline max & ^{\circ}C & +70 & & \\ \hline \end{tabular}$			min	mm²	0.5
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UL technical data Motor power for direct-on-line control for three-phase motor 240V HP 3 for single-phase motor 240V HP 1 Ambient conditions Temperature Operating temperature Min °C -25 max °C +55 Storage temperature Min °C -40 max °C +70	and and life		IVIAX		
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240V HP 3 for single-phase motor 240V HP 1 Ambient conditions 240V HP 1 Temperature 0perating temperature r -25 Max °C +55 Storage temperature min °C -40 max °C +70	f	or three-phase motor			
for single-phase motor 240V HP 1 Ambient conditions Temperature Operating temperature min °C -25 max °C +55 Storage temperature min °C -40 max °C +70			240V	HP	3
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Storage temperature min °C -40 max °C +70					
min °C -40 max °C +70		Storage temperature	max	Ŭ	
max °C +70		norage temperature	!	° ^	40
Resistance & Protection			max	°C	+70
Frontal IP degree IP40	al IP degree				IP40
Terminals IP degree IP20					
Dimensions	inals IP degree				
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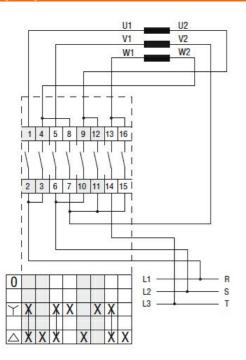
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ENERGY AND AUTOMATION



Cariaa	Dimensions					L					
Series	□A	D1	D2	E	G	□K	S	1	2	3	12
GF20	48	12	5	34.2	5	36	45-55	46	59.5	73	194.5

Wiring diagrams



Certifications and compliance

Compliance		
	CSA C22.2 n° 14	
	IEC/EN/BS 60947-1	
	IEC/EN/BS 60947-3	
	IEC/EN/BS 60947-5-1	
	UL60947-4-1	
Certificates		
	cULus	
	EAC	
ETIM classification		
ETIM 8.0		EC001029 - Selector switch, complete

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