



- Rated load: 400A at 60VDC
- 120VDC with Magnet arc blow-out option
- Auxiliary contact option
- SPST, SPDT, DPST-NO, DPDT versions
- Motor reverser
- Bi-stable (Latching) option SPST only

RoHS

		CCCCSUS Compliant				
Contacts		Ordering Code				
Contact arrangement	SPST-NO-DM, SPDT, DPST-NO-DM, DPDT					
Contact material	AgCu Alloy	DSC40M-4021-28-1024-SD W				
Max. switching voltage DC	60V, 120VDC with magnet arc blow-out					
Rated load (resistive, cos φ=1) DC1	400A 60VDC	DSC Series Coil codes				
Terminal temperature rise above ambient	<70°C. IEC EN60947, GB14/14048.4	40: Standard See tables 1 & 2				
Contact voltage drop max.	≤ 80mV @ 400A	40M: Magnet arc blow-out				
Auxiliary Contact (when fitted) arrangement	SPST-NO (1 Form A) + SPST-NC					
(not available for DPDT) max. current	5A @ 24VDC / 2A @ 48VDC	Contact arrangement				
min. current	100mA @ 5V	4011: SPDT (C/O) (1 Form C (1Z) non latching)				
Coil		4012: Motor reverser (2 Form C (2Z) non latching)				
Nominal Voltage (see page 2) DC	12 ~ 120VDC (Tables 1 & 2)	4021: SPST-NO (1 Form A (H) and latching SPST)				
Rated power consumption hold	15 ~ 25W (non-latching type)					
initial	30 ~ 40W (latching)	Body style				
Working duty non-latch	continuous	28: Open frame, male stud terminals				
Minimum pulse length latch	200ms					
Maximum operating frequency latch coil	6 ops./min. square wave pulse	Accessory options				
Insulation		Blank: No option				
Insulation resistance Initial	100MΩ (min.) @500VDC	C: Dust cover				
Dielectric strength coil to contact	$1000V_{\text{rms}}\left(50/60\text{Hz}\right)$ / <1mA / 1 min (at sea level)	S: Auxiliary switch (not available for 4012 contacts)				
contact to contact	1000V _{rms} (50/60Hz, 1min, <1mA leakage)	D: Parallel back EMFdiode suppression (standard coils)				
General Data		T: Parallel TVS back EMFsuppression diode (bi-stable coils)				
Operate / bounce time at 20°C max.	30ms / 3ms					
Release time max.	max. 30ms Mounting & terminations					
Electrical life at rated load	20,000 ops	Blank: No bracket				
Mechanical life no load	100,000 ops	W: 'W' shaped mounting bracket				
Environmental		1L: 'L' shaped mounting bracket				
Ambient temperature operating	-25°C to +65°C (Latching), +85°C (non-Latching)	2L: 2 x 'L' shaped mounting brackets				
Shock resistance	20g peak, 11ms 1/2 sine					
Vibration resistance	3g sine peak (1-50Hz 0.5mm amplitude)					
Relative humidity RH	20% ~ 90%	*Not all part numbers are CE approved. Consult factory if				
Dimensions L x W x H	Various - see dimensional drawings	required.				
Weight approx.	Various according to option and style					

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DSC40 series LVDC Contactor 400A / 60VDC / 120VDC

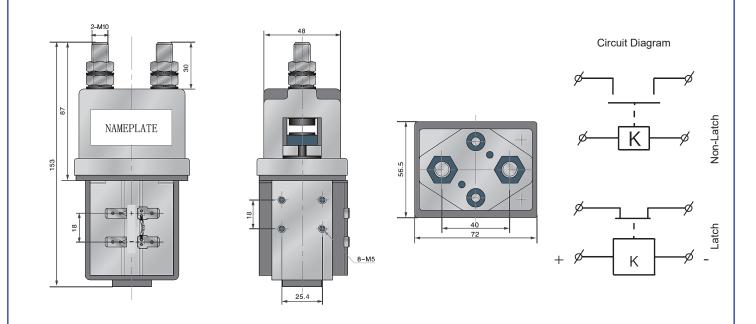
Coil Data - Standard	(monostable) coil					Table 1
Coil code	Nominal voltage U₅ (VDC)	Recommended coil operating range (V)	Must operate max. voltage (VDC)	Must release voltage min. (VDC)	Starting current (A)	Coil power (W)
1012	12	0.85U₅ ~ 1.2U₅	≤ 8.4	≥ 1.2	≤ 1.5	
1024	24		≤ 16.8	≥ 2.4	≤ 0.7	
1030	30		≤ 21.0	≥ 3.0	≤ 0.6	
1036	36		≤ 25.2	≥ 3.6	≤ 0.5	
1048	48		≤ 33.6	≥ 4.8	≤ 0.35	• 15 ~ 25W
1060	60		≤ 42.0	≥ 6.0	≤ 0.30	15~2500
1072	72		≤ 50.4	≥ 7.2	≤ 0.25	
1080	80		≤ 56.0	≥ 8.0	≤ 0.20	
1096	96		≤ 67.2	≥ 9.6	≤ 0.2]
1120	120		≤ 84.0	≥ 12.0	≤ 0.15	

Coil code	Nominal voltage U₅ (VDC)	Recommended coil operating range (V)	Must operate max. voltage (VDC)	Must release voltage min. (VDC)	Starting current (A)	Coil power (W)
SL12	12	0.85U _s ~ 1.2U _s	≤ 9.6	≤ 9.6	≤ 2.50	
SL24	24		≤ 19.2	≤ 19.2	≤ 1.50	
SL30	30		≤ 24.0	≤ 24.0	≤ 1.00	
SL36	36		≤ 28.8	≤ 28.8	≤ 1.00	Initial
SL48	48		≤ 38.4	≤ 38.4	≤ 0.80	30 ~ 45W
SL60	60		≤ 48.0	≤ 48.0	≤ 0.60	Pulse length
SL72	72		≤ 57.6	≤ 57.6	≤ 0.50	0.5 ~ 1 sec.
SL80	80		≤ 64.0	≤ 64.0	≤ 0.40	
SL96	96		≤ 76.8	≤ 76.8	≤ 0.35	
SL120	120		≤ 96.0	≤ 96.0	≤ 0.30	1

Other coils available upon special request. MOQ's will apply.

Dimensions (mm)

DSC40-4021-28-****



Specifications are subject to change without notice. E&OE.

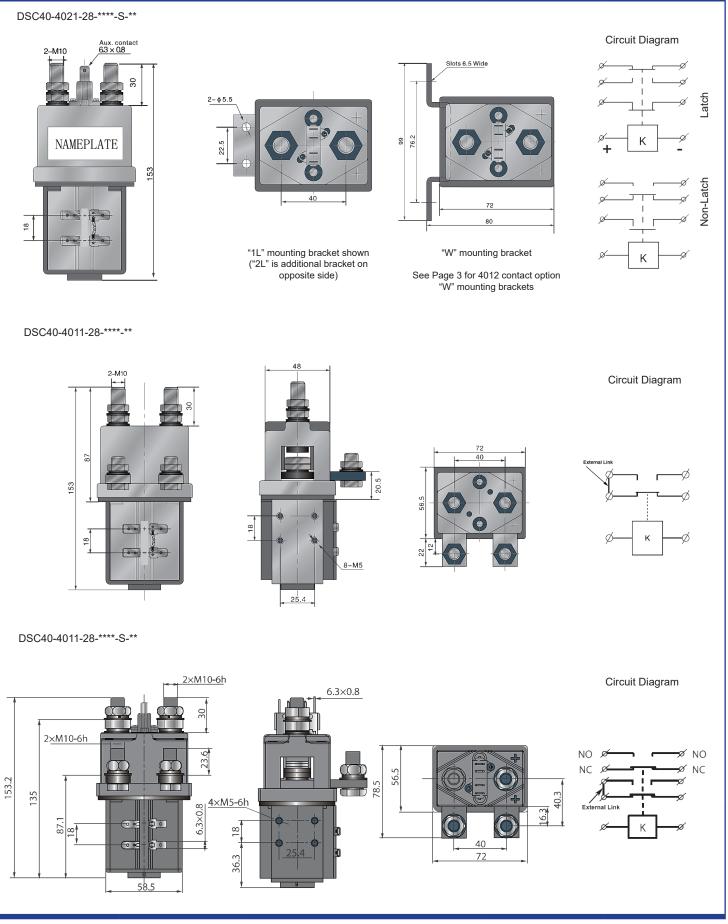
Fig. 1



DSC40 series

Dimensions (mm)

Fig. 2

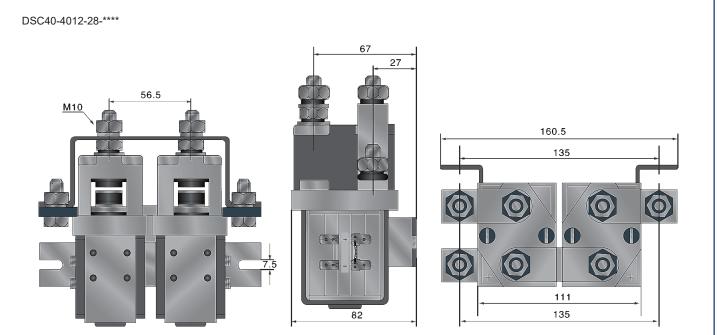


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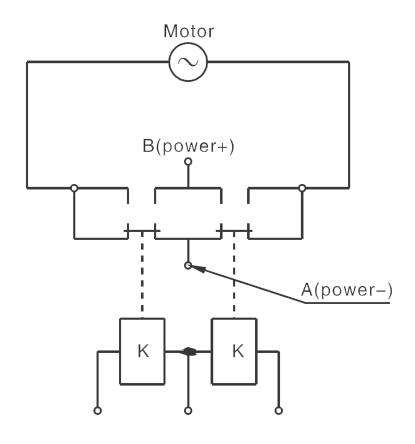


DSC40 series LVDC Contactor 400A / 60VDC / 120VDC

Dimensions (mm)



Circuit Diagram



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