



- DPST-NO Rated 2 x 40A / 277VAC
- Designed for EV charging systems
- Sealed cover
- PCB mounting miniature case size
- >2mm Contact gap, 3mm contact gap optional
- Optional auxiliary NC contact is mechanically linked to main contacts (IEC61810-3)

		C US Compliant			
Contacts		Ordering Code			
Contact arrangement	DPST-NO-DM (2 Form X)				
Contact material	AgSnO ₂	D E 3 5 G - 5 0 A 2 - 3 5 - 1 0 1 2			
Rated current AC	2 x 40A				
Max. switching voltage	277VAC	Series Coil code:			
Max. breaking capacity	11000VA	See Tables 1,			
Initial contact resistance main contact	s 10mΩ at 6VDC/20A	NIL: standard contact gap 2 & 3			
Min. switched load	1A / 12VDC	G: 3mm contact gap			
Max. operating frequency rated load	360 cycles/hour				
Coil		Contact material			
Operating range D0	12VDC, 24VDC See tables 1 & 2	50: AgSnO₂			
Rated power consumption	DE35 1.8W @ 23°C: DE35G 3W @ 23°C				
Insulation		Contact arrangement			
Coil insulaton system	IEC 31, CLASS F 155°C	22: DPST-NO-DM (2 Form X)			
Insulation resistance	>100 MΩ at 500VDC, 50%RH	A2: DPST-NO-DM (2 Form X)			
Dielectric strength		+ SPST-NC auxiliary contact			
coil to contac	t 4000V _{rms} (50/60Hz, 1min, <1mA leakage)	available with DE35G type only			
DE35: open contac	s 3000V _{rms} (50/60Hz, 1min, <1mA leakage)				
DE35G: open contac	s 4000V _{rms} (50/60Hz, 1min, <1mA leakage)	Mounting & terminations			
General Data		35: Plain cover - PCB mounting IP67 sealed			
Operate time typica	1 30ms				
Release time typica	I 10ms				
Electrical life (standard version) cycle	6 x 10 ³ at 40A 253VAC, 85°C 1s ON 9s OFF	Auxiliary Contact Details			
Mechanical life cycle	s >1 x 10 ⁵	Contact form: SPST-NC (1 Form B)			
Environmental		Contact material: AgNi			
Environmental protection	IP67	Contact rating: 1A 277VAC, 1A 30VDC (resistive)			
Ambient temperature operating	-40 to +85°C	Max switching power: 277VA / 30W			
storag	-40 to +125°C	Initial contact resistance: ≤ 100mΩ (6VDC 1A)			
Mechanical shock	20g, 11ms	Contact gap: 0.5mm in accordance with IEC61810-3			
Vibration resistance	10-40Hz: DA1.27mm, 40-70Hz 5g				
	70-100Hz: DA0.5mm, 100-500Hz: 5g	DE35G with aux. switch not UL approved.			
Dimensions L x W x H	49 x 26.5 x 30mm approx.(excluding pins)				
Weight approx	. 70g				

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





DE35 SeriesAutomotive / Industrial Relay

DC Coil Data : DE35-5022 Tab						
Coil code	Nominal voltage U _n (VDC)	Must operate voltage max. (VDC at 23°C)	Max. allowable voltage (VDC)	Must release voltage min. (VDC)	Coil resistance Ω ±10% (at 30°C)	Coil Current (mA) at nominal voltage
1012	12	9.00	18.0	1.0	80	160
1024	24	18.0	35.0	2.0	320	75

DC Coil Data : DE35G-5022* (with 3mm contact gap)						Table 2
Coil code	Nominal voltage U _n (VDC)	Must operate voltage max. (VDC at 23°C)	Max. allowable voltage (VDC)	Must release voltage min. (VDC)	Coil resistance Ω ±10% (at 30°C)	Coil Current (mA) at nominal voltage
1012	12	9.00	18.0	1.0	48	250
1024	24	18.0	35.0	2.0	192	125

DC Coil Data : DE35G-50A2* (with 3mm contact gap & auxiliary contact)						Table 3
Coil code	Nominal voltage Uո (VDC)	Must operate voltage max. (VDC at 23°C)	Max. allowable voltage (VDC at 23°C)	Must release voltage min. (VDC)	Coil resistance Ω ±10% (at 30°C)	Coil Current (mA) at nominal voltage
1012	12	9.00	13.2	0.8	48	250
1024	24	18.0	26.4	1.2	192	125

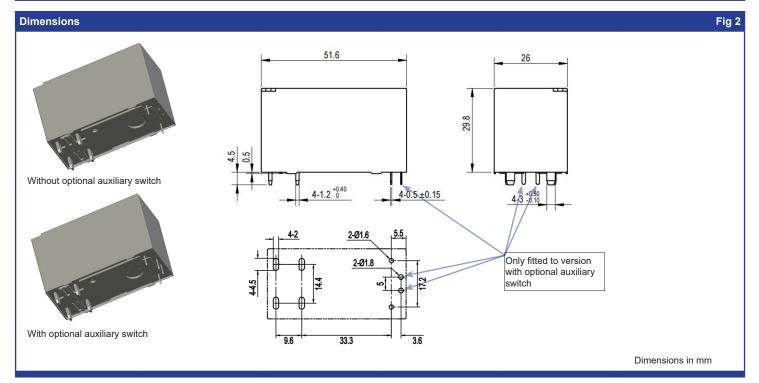
*Note:

The DE35G version's coil temperature rise can exceed 55°C if used on continuous duty or at high currents.

We strongly recommend using a reduced coil holding voltage of 30-60% Un or current limiter after 0.1sec, to avoid overheating the relay coil.

At ambient temperature of 85°C, Maximum allowable voltage should be reduced to 72%.





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