EMG 17-OV

M 3

8

with DC voltage output,
max. = 1 A

Housing width 17.5

	(IEC) [mm²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
Connection data		0.2-4	0.2-2.5	24-12	*	*

* The electrical data is determined by the power optical coupler.

Description	Input voltage	Type	Order No.	Pcs. Pkt.
Power optical coupler, with light indicator and input/output protection circuit, input: DC or AC voltage	5 V DC	EMG 17-OV- 5 DC/220 DC/1	29 54 05 7	10
	12 V DC	EMG 17-OV- 12 DC/220 DC/1	29 54 06 0	10
	24 V DC	**EMG 17-OV- 24 DC/220 DC/1**	**29 54 07 3**	10
	48–60 V DC	EMG 17-OV- 60 DC/220 DC/1	29 54 08 6	10
	110 V DC	EMG 17-OV-110 DC/220 DC/1	29 54 09 9	10
	220 V DC	EMG 17-OV-220 DC/220 DC/1	29 54 10 9	10
	120 V AC	EMG 17-OV-120 AC/220 DC/1	29 54 11 2	10
	230 V AC	EMG 17-OV-230 AC/220 DC/1	29 54 12 5	10

Accessories

Equipment marker normal		**EMG-GKS**	**29 47 03 5**	50

Technical data

Dimensions										
Width	[mm]	17.5								
Height	[mm]	102								
Length	[mm]	75								
Input data (Input)		**DC**						**AC**		
Operating voltage range [V DC/V AC] ± 10 % [6])		5	12	24	48/60	110	220	120	230	

Switching level	1 signal (“H“) [V DC/V AC] ≥	3.4	6	10	24	33	75	38	85
	0 signal (“L“) [V DC/V AC] ≤	2.3	3	7.5	18	27	58	15	45
Typ. input current with U_N [mA]		6	6	7	6	5	5	5	5
Transmission frequency f_{limit} [Hz] (ohmic load)		100	100	100	100	100	100	10	10

Input circuit	polarity protection diode, operation indicator (LED yellow) surge voltage protection (only AC inputs)
Output data	**DC load**
Operating voltage range	15–220 V DC
Max. collector/emitter reverse voltage	220 V DC
Max. continuous load current [1] [2]	1 A
Surge current	2 A (t = 1 s)
Voltage drop at max. load current	1.2 V
Max. phase shift (inductive loads)	[3]
Switching time t_{in} /t_{out} DC input	2.5 µs/1 ms
AC input	4 ms/35 ms
Output circuit	polarity protection diode, surge voltage protection
Output connection	floating, 2 conductors
General data	
Insulation voltage input/output	3.5 kV_{rms}
Ambient temperature range	–20 ° C to +60 ° C
Standards/regulations	DIN VDE 0110
Installation position/mounting	as desired, in rows with zero spacing
Type of connection	screw connection

Type of housing
Polycarbonate fiber reinforced PC-F,
see product-line info
color: green
Torque value of terminals see product-line info.
The rated cross section (see product-line info) refers to untreated conductors without ferrules.
Articles printed in bold can be delivered at short notice.

Notes:

[1]) See load current diagram!
The curve is also valid for inductive
loads up to cos. φ = 0.5

[2]) Recommended equipment fuse:
for coupling component with 3 A output = 5 A,
for coupling component with 1 A output = 2 A,
Fast acting fuse (FF), identification color: black as overload protection for semiconductor switch (triac, transistor)

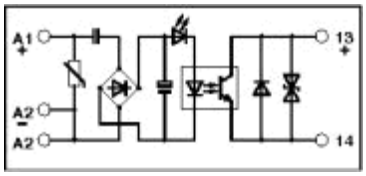
[3]) For the protection of input/output circuits, inductive loads must be dampened with an effective protective circuit.

[4]) Switch-on time:
max. one half cycle (zero voltage)
Switch-off time:
max. one half cycle (zero current)

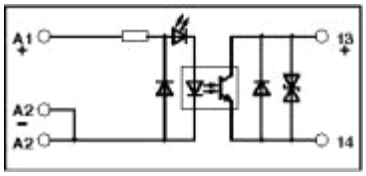
[5]) Not suitable for reversing circuits with synchronous motors
(special components available on request)

[6]) With 120 AC and 230 AC + 6 %, -15 %

Block diagram

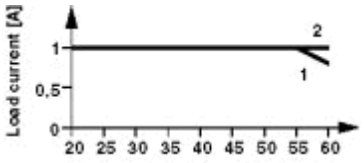


AC-Input



Diagram

DC-Input



1 Power optical couplers mounted in rows with zero spacing
2 Power optical couplers in rows with ≥ 20 mm spacing