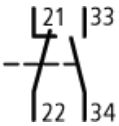
MOELLER

Type: **11DILEM**
Article No.: **010080**



Ordering information			
Connection technique			Screw terminals
Description			2–pole
Conventional thermal current I th = I e AC–1 Open	$I_{th} = I_e$	A	10
Contacts N/O = Normally open			1 N/O
Contacts N/C = Normally closed			1 N/C
Can be combined with contactor			DILE(E)M–10(–G)(...) DILEM–4(–G)(...)

Contact sequence



Notes concerning the product group

Auxiliary contact module contacts:

...DILEM to EN 50 012

...DILE to EN 50 005

Contacts to EN 50012 should be given preference.

Auxiliary contact modules with interlocked opposing contacts.

Not in the case of early–make or late–break contacts

General

Standards			IEC/EN 60947, VDE 0660, CSA, UL
Maximum operating frequency			
Mechanical		Ops./h	9000
Climatic proofing			Damp heat, constant, to IEC 60068–2–78 Damp heat cyclic to IEC 60068–2–30
Ambient temperature			
Open		°C	–25/50
Enclosed		°C	–25/40
Mechanical shock resistance (IEC/EN 60068–2–27)			
Half–sinusoidal shock, 10 ms			
Basic unit without auxiliary contact module			
Main contacts, make contacts		g	10
Main contacts Make/break contacts		g	10/8
Basic unit with auxiliary contact module			
Main contacts make contact		g	10
Auxiliary contacts Make/break contacts		g	20/20
Protection type			IP 20
Protection against direct contact when actuated from front (IEC 536)			Finger and back–of-hand proof
Terminal capacity of auxiliary and main contacts			
Solid		mm^2	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)
Flexible with ferrule		mm^2	1 × (0.75 – 1.5) 2 × (0.75 – 1.5)
Solid or stranded		AWG	18 – 14
Terminal screw			M3.5
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	0.8 × 5.5 1 × 6
Max. tightening torque		Nm	1,2
Terminal capacity springloaded terminals main and control circuits			
Solid		mm^2	1 × (1 – 2.5) 2 × (1 – 2.5)

Flexible with ferrule		mm^2	1 × (1 – 2.5) 2 × (1 – 2.5)
Standard screwdriver		mm	0.6 × 3.5
Main conducting paths			
Rated impulse withstand voltage	U_{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated insulation voltage			
AC	U_i	V AC	690
Rated operational voltage			
Rated operational voltage	U_e	V AC	690
Safe isolation to VDE 0106 Part 101 and Part 101/A1			
between coil and contacts		V AC	300
between the contacts		V AC	300
Making capacity (cos to IEC/EN 60947)		A	110
Breaking capacity			
220/230 V		A	90
380/400 V		A	90
500 V		A	64
660/690 V		A	54
Short–circuit protection maximum fuse			
Type “2” coordination	gL/gG	A	10
Type “1” coordination	gL/gG	A	20
AC			
AC–1 duty			
conv. therm. current 3 pole 50 – 60 Hz			
open			
at 40 °C	I_{th}	A	22
at 50 °C	I_{th}	A	20
at 55 °C	I_{th}	A	19
enclosed	I_{th}	A	16
AC–3 duty			
Rating, AC–3 motor load switch			
380/400 V	P	kW	4
AC–4 duty			

AC–4			
380/400 V	P	kW	3
DC			
Operations			
Magnet systems			
Duty factor		% DF	100
Switching times at 100 % U_c			
Reversing contactors			
Arcing time at 690 V AC		ms	max. 12
Auxiliary contacts			
Interlocked opposing contacts to ZH 1/457, including auxiliary contact module			Yes
Rated impulse withstand voltage	U_{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated insulation voltage	U_i	V AC	690
Rated operational voltage			
Rated operational voltage	U_e	V AC	600
Safe isolation to VDE 0106 Part 101 and Part 101/A1			
between coil and auxiliary contacts		V AC	300
between the auxiliary contacts		V AC	300
Rated operational current			
AC–15			
220/240 V	I_e	A	4
380/415 V	I_e	A	2
500 V	I_e	A	1,5
DV–13			
Contacts in series:			
1	24 V	A	2,5
2	60 V	A	2,5
3	100 V	A	1,5
3	220 V	A	0,5
Conventional thermal current	I_{th}	A	10
Control circuit reliability (at U_e = 24 V DC, U_{min} = 17 V, I_{min}= 5.4 mA)	Failure rate		–8, < one failure at 100 million operations
Component lifespan at U_e = 240 V			
AC–15	Operations	× 10^6	0,2
DC–13			

L/R = 50 ms: 2 contacts in series at I_e = 0.5 A	Operations	× 10^6	0,15
Short−circuit rating without welding			
Maximum overcurrent protective device			PKZM0−4
Short−circuit protection maximum fuse			
500 V		A gG/gL	6
500 V		A fast	10
Current heat loss at I_{th}			
Per contact		W	0,2
Notes			
			At maximum permissible ambient temperature. Smoothed DC or three−phase bridge rectifier Making and breaking conditions to DC−13, time L/R constant as stated

Mounting position

As required except vertical with terminals A1/A2 at the bottom 

Moeller GmbH, Hein−Moeller−Str. 7−11, D−53115 Bonn
E−Mail: catalog@moeller.net, Internet: www.moeller.net, http://catalog.moeller.net
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