

DILM7 ... DILM170

Moeller HPL0211-2007/2008

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			DILM7	DILM9	DILM12	DILM15	DILM17	DILM25
Current heat loss (3 pole)								
Current heat loss at I _{th}	W		3	3	3	3	7.3	9.6
Current heat loss at I _e to AC-3/400 V	W		0.37	0.6	1.1	1.8	1.9	3.8
Impedance per pole	mΩ		2.5	2.5	2.5	2.5	2	2
Magnet systems								
Voltage tolerance								
AC operated	Pick-up	× U _c	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1
Drop-out voltage AC operated	Drop-out	× U _c	0.3...0.6	0.3...0.6	0.3...0.6	0.3...0.6	0.3...0.6	0.3...0.6
DC operated ³⁾	Pick-up	× U _c	0.8...1.1	0.8...1.1 ¹⁾	0.8...1.1 ¹⁾	0.8...1.1 ¹⁾	0.7...1.2 ²⁾	0.7...1.2 ²⁾
DC operated ³⁾	Drop-out	× U _c	0.15...0.6	0.15...0.6	0.15...0.6	0.15...0.6	0.15...0.6	0.15...0.6
Power consumption of the coil in a cold state and 1.0 × U _c								
50 Hz	Pick-up	VA	24	24	24	24	52	52
50 Hz	Sealing	VA	3.4	3.4	3.4	3.4	7.1	7.1
50 Hz	Sealing	W	1.2	1.2	1.2	1.2	2.1	2.1
60 Hz	Pick-up	VA	30	30	30	30	67	67
60 Hz	Sealing	VA	4.4	4.4	4.4	4.4	8.7	8.7
60 Hz	Sealing	W	1.4	1.4	1.4	1.4	2.6	2.6
50/60 Hz	Pick-up	VA	27	27	27	27	62	62
			25	25	25	25	58	58
50/60 Hz	Sealing	VA	4.2	4.2	4.2	4.2	9.1	9.1
			3.3	3.3	3.3	3.3	6.5	6.5
50/60 Hz	Sealing	W	1.4	1.4	1.4	1.4	2.5	2.5
			1.2	1.2	1.2	1.2	2	2
DC operated	Pick-up	W	3	3	4.5	4.5	12	12
DC operated	Sealing	W	3	3	4.5	4.5	0.5	0.5
Duty factor	% DF		100	100	100	100	100	100
Switching times at 100 % U _c (approximate values)								
Main contacts								
AC operated								
Closing delay	ms		15...21	15...21	15...21	15...21	16...22	16...22
Opening delay	ms		9...18	9...18	9...18	9...18	8...14	8...14
DC operated								
Closing delay	ms		31	31	31	31	47	47
Opening delay	ms		12	12	12	12	30	30
Arcing time	ms		10	10	10	10	10	10
Permissible residual current with actuation of A1 – A2 by the electronics (with 0 signal).	mA		≤ –	≤ –	≤ –	≤ –	≤ –	≤ –
Lifespan, mechanical; Coil 50/60 Hz	at 50 Hz		Mechanical lifespan at 50 Hz approx. 30% lower than → Technical dat, general					
Electromagnetic compatibility (EMC)								
Emitted interference			to EN 60947-1					
Interference immunity			to EN 60947-1					

Notes

¹⁾ at 24 V: 0.7 – 1.3 without additional auxiliary contact modules and ambient temperature + 40 °C

²⁾

RDC 24 (U_{min} 24 V DC/U_{max} 27 V DC)
 RDC 60 (U_{min} 48 V DC/U_{max} 60 V DC)
 RDC 130 (U_{min} 110 V DC/U_{max} 130 V DC)
 RDC 240 (U_{min} 200 V DC/U_{max} 240 V DC)

Example:

³⁾ U_c = 0.7 × U_{min} – 1.2 × U_{max}

Contactors DILM, DILH



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DILM32	DILM40	DILM50	DILM65 DILM72	DILM80	DILM95	DILM115	DILM150	DILM170
12.1	11.3	19	28.8	12.2	18.2	20.3	30.7	41.1
6.1	7.2	11.3	19 23	9.6	13.5	15.9	27	34.7
2	1.5	1.5	1.5	0.5	0.5	0.4	0.4	0.4
0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.15	0.8...1.15	0.8...1.15
0.3...0.6	0.3...0.6	0.3...0.6	0.3...0.6	0.3...0.6	0.3...0.6	0.25...0.6	0.25...0.6	0.25...0.6
0.7...1.2 ²⁾	0.7...1.2 ²⁾	0.7...1.2 ²⁾	0.7...1.2 ²⁾	0.7...1.2 ²⁾	0.7...1.2 ²⁾	0.7...1.2 ²⁾	0.7...1.2 ²⁾	0.7...1.2 ²⁾
0.15...0.6	0.15...0.6	0.15...0.6	0.15...0.6	0.15...0.6	0.15...0.6	0.15...0.6	0.15...0.6	0.15...0.6
52	149	149	149	310	310	180	180	180
7.1	16	16	16	26	26	3.1	3.1	3.1
2.1	4.3	4.3	4.3	5.8	5.8	2.1	2.1	2.1
67	178	178	178	345	345	170	170	170
8.7	19	19	19	30	30	3.1	3.1	3.1
2.6	5.3	5.3	5.3	7.1	7.1	2.1	2.1	2.1
62	168	168	168	372	372	170	170	170
58	154	154	154	328	328	170	170	170
9.1	22	22	22	37.1	37.1	3.1	3.1	3.1
6.5	14	14	14	22.6	22.6	3.1	3.1	3.1
2.5	5.3	5.3	5.3	7.5	7.5	2.1	2.1	2.1
2	4.3	4.3	4.3	6.1	6.1	2.1	2.1	2.1
12	24	24	24	90	90	149	149	149
0.5	0.5	0.5	0.5	1.3	1.3	2.1	2.1	2.1
100	100	100	100	100	100	100	100	100
16...22	12...18	12...18	12...18	14...20	14...20	28...33	28...33	28...33
8...14	8...13	8...13	8...13	9...14	9...14	35...41	35...41	35...41
47	54	54	54	45	45	35	35	35
30	24	24	24	34	34	30	30	30
10	10	10	10	15	15	15	15	15
≤ –	≤ –	≤ –	≤ –	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1
Mechanical lifespan at 50 Hz approx. 30% lower than → Technical dat, general								
to EN 60947-1								
to EN 60947-1								

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