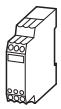
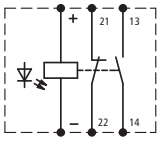
Rated operational current AC-15 230 V I_e A	Rated operational current AC-15 400 V I_e A	Rated operational current DC 220 V I_e A	Actuating voltage U_s V DC	Actuating current I mA	Circuit symbol	For use with	**Part no.**	**Price** See price list	Std. pack	**Information relevant for export to North America**

Amplifier module for separate mounting

Input with integrated suppressor circuit for overvoltage limitation



2	2	0.03	24	25		...DILM DIMLP... DILL... DILK...	**ETS4-VS3** 083094		1 Off

Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	2411-03, 3211-04
NA Certification	UL Listed, CSA certified

Notes Contactor coils with rated operational current > 2 A must be actuated via the DILER-G mini contactor relay.
Rated operational current DC:
Making and breaking conditions DC-13, time L/R 300ms

Individual coils



For use with	DC voltage **Part no.** Article no.	DC voltage **Prices** See price list	AC voltage **Part no.** Article no.	AC voltage **Price** See price list	Std. pack	**Notes**
DILM17 DILM25 DILM32 DILM38	**DILM32-XSP(RDC24)**[1] 281155		**DILM32-XSP(230V50HZ,240V60HZ)** 281141		1 Off	For additional actuating voltages → Page 5/79
DILM40 DILM50 DILM65 DILM72	**DILM65-XSP(RDC24)**[1] 281185		**DILM65-XSP(230V50HZ,240V60HZ)** 281171			
DILM80 DILM95	**DILM95-XSP(RDC24)**[1] 230080		**DILM95-XSP(230V50HZ,240V60HZ)** 230062			
DILM115 DILM150 DILM170	**DILM150-XSP(RDC24)**[1] 230115		**DILM150-XSP(RAC240)**[1] 230112			
DILM185A DILM225A	**DILM225A-XSP(RDC24)**[1] 139568		**DILM225A-XSP(RAC240)**[1] 139565			

Notes [1] Incl. electronic module

Information relevant for export to North America

Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29096
UL CCN	NLDX
CSA File No.	012528
CSA Class No.	2411-03, 3211-04
NA Certification	UL Listed, CSA certified

	For use with	DC voltage **Part no.** Article no.	**Price** See price list	AC voltage **Part no.** Article no.	**Price** See price list	Std. pack	**Notes**
Electronic modules including coils							
	DILM250 DILM300A	**DILM250-XSP/E(RA250)**[1] 208252		**DILM250-XSP/E(RA250)**[1] 208252		1 Off	For additional actuating voltages → Page 5/81
	DILM400 DILM500	**DILM500-XSP/E(RA250)**[1] 208256		**DILM500-XSP/E(RA250)**[1] 208256			
	DILM580 DILM650 DILM750 DILM820 DILM1000	**DILM1000-XSP/E(RA250)**[1] 289145		**DILM1000-XSP/E(RA250)**[1] 289145			
	DILH1400	–		**DILH1400-XSP/E(RAW250)**[2] 289161			
	DILM250-S DILM300A-S	–		**DILM250-S-XSP/E(220-240V50/60HZ)**[2] 274202			
	DILM400-S DILM500-S	–		**DILM500-S-XSP/E(220-240V50/60HZ)**[2] 274205			

1)

Information relevant for export to North America

Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29096
UL CCN	NLDX
CSA File No.	1017510
CSA Class No.	3211-04
NA Certification	UL Listed, CSA certified

2)

Information relevant for export to North America

Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29096
UL CCN	NLDX
CSA File No.	012528
CSA Class No.	3211-04
NA Certification	UL Listed, CSA certified

CMD HPL05068EN

Description, ordering



General

For safety-related off switching to safety category 3 and 4 according to EN 954-1, at present two contactors must be used in series. Especially with larger contactors this is an expensive solution.

Application

This is where the CMD can be used. The function of the CMD is to monitor the main contacts of a contactor against welding. For this the control voltage of the contactor is compared with the state of the main contacts which is reliably monitored using a mirror contact (IEC EN 60947-4-1 Annex F). If the coil is de-energized and the contactor does not drop out the CMD trips the upstream circuit-breaker/motor protective circuit breaker/switch-disconnector via a shunt release.

Safety

The CMD has a safety-compliant design so that in safety combinations with a circuit-breaker/motor protective circuit breaker/switch disconnector the reliable switch off in the case of a "welded contactor" can be guaranteed. In this application it replaces the series connection of a second contactor. As a component it conforms to safety category 3 according to EN 954-1 and EN ISO 13849.

Mounting

The CMD can be combined with the following Eaton components:

- Contactors:
  - DILEM
  - DILM7 to DILM150
  - DILM185(-S) to DILM500(-S):
  - DILM580 to DILM1600
  - DILH1400 … DILH2000
  - SE-1A-PKZ2 and S-PKZ2

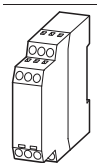
For the wiring of the CMD the auxiliary N/C contact, mirror contact must be according to IEC/EN 60947-4-1 and the auxiliary N/O contact must be interlocked and opposing according to IEC/EN 60947-5-1. Also the auxiliary N/C contact for the feedback circuit must have a mirror contact function according to IEC/EN 60947-4-1.

- Motor-protective circuit-breakers/ circuit-breakers:
  - PKZ2 + U-PKZ2(18VDC)
  - NZM1 + NZM1-XUVL
  - NZM2 + NZM2/3-XUV
  - NZM3 + NZM2/3-XUV
  - NZM4 + NZM4-XUV
  - N1 + NZM1-XUVL
  - N2 + NZM2/3-XUV
  - N3 + NZM2/3-XUV
  - N4 + NZM4-XUV

Auxiliary contact requirements per contactor:

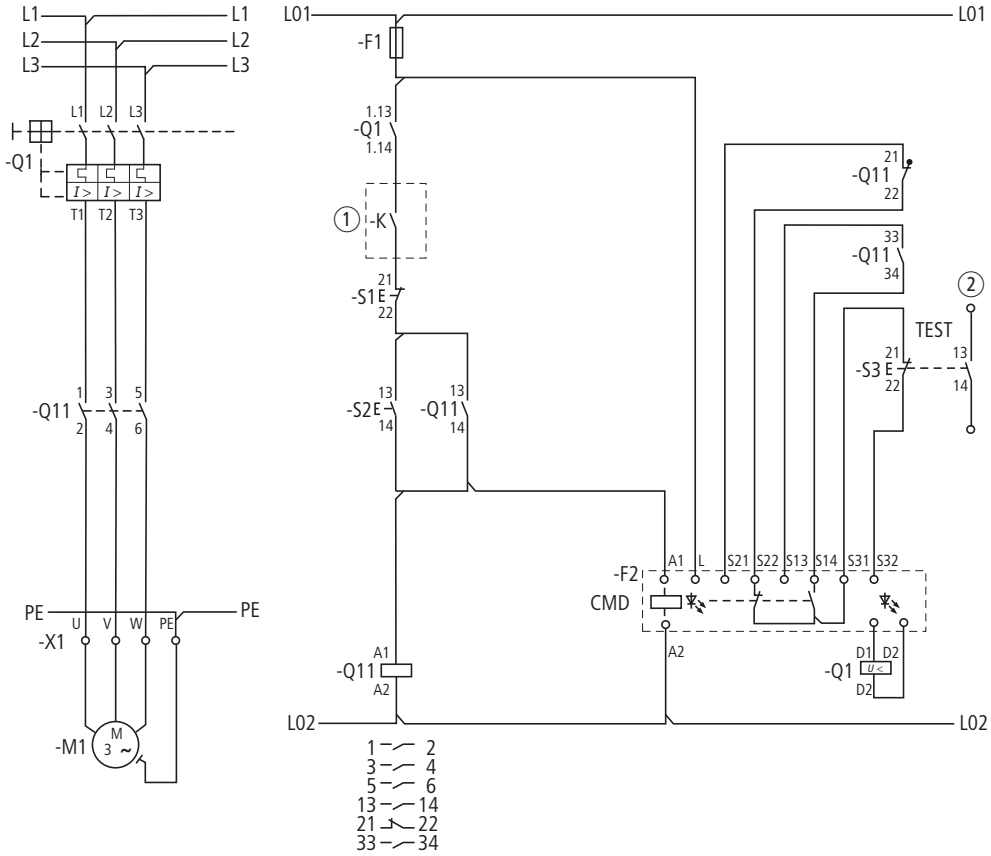
	CMD	Self maintaining	Feedback circuit	Electrical interlock
DOL starter	1 N/O + 1 N/C	1S	1 B	
Reversing starter	1 N/O + 1 N/C	1S	1 B	1 B

Ordering

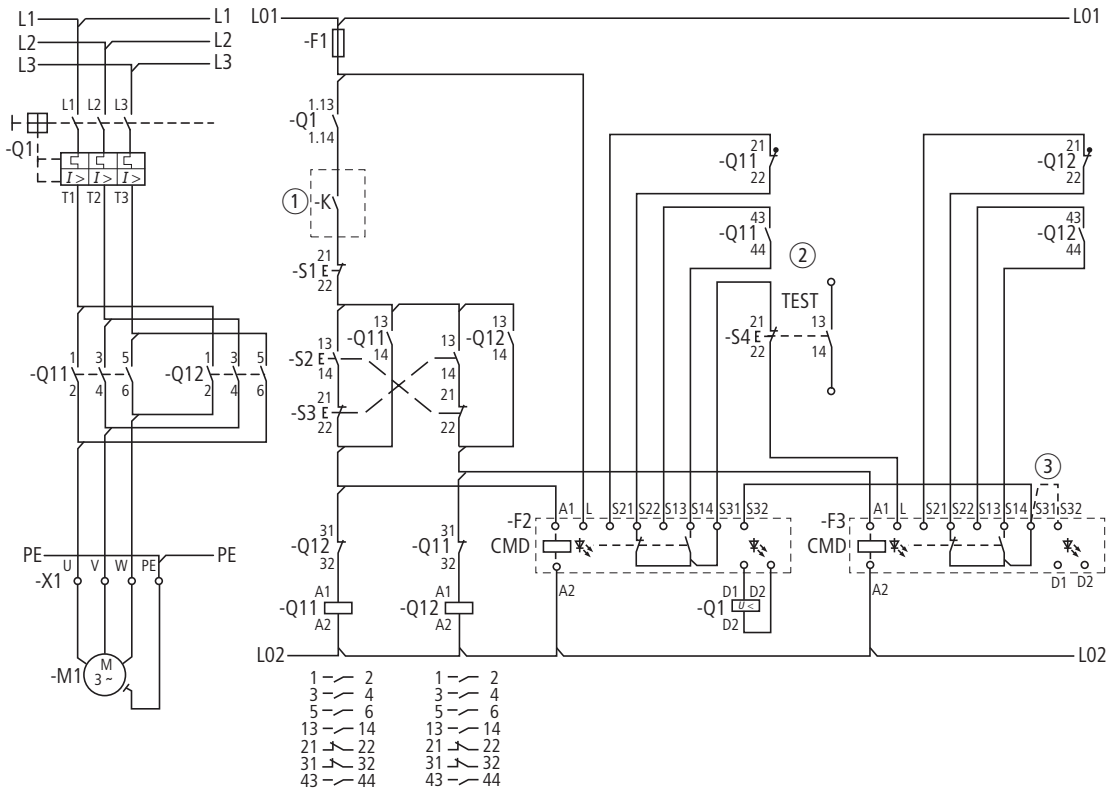
	Part no. Article no.	Price See Price List	Std. pack
CMD contactor monitoring device			
	**CMD(24VDC)** 106170		1 Off
	CMD(220-240VAC) 106172		1 Off

Engineering

DOL starter



Reversing starter



① Switching by safety relay of safety PLC
② Signal contact to PLC evaluation
③ CMD (24VDC)

Ordering

AC	DILER-40(...)	DILER-31(...)	DILER-22(...)	DILEEM-10(...)	DILEEM-01(...)
	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list	See price list	See price list	See price list
24V 50Hz	010094	010251	010344	051604	051629
48V 50Hz	010190	010044	010201	051603	051628
240V 50Hz	010478	010300	010138	051602	051627
115V 60Hz	010270	010204	010211	051598	051624
42V 50Hz, 48V 60Hz	–	–	–	051612	051637
110V 50Hz, 120V 60Hz	051756	051765	051774	051611	051636
190V 50Hz, 220V 60Hz	051757	051766	051775	051610	051635
220V 50Hz, 240V 60Hz	051758	051767	051776	051609	051634
230V 50Hz, 240V 60Hz	051759	051768	051777	051608	051633
380V 50Hz, 440V 60Hz	051760	051769	051778	051607	051632
400V 50Hz, 440V 60Hz	051761	051770	051779	051606	051631
415V 50Hz, 480V 60Hz	051762	051771	051780	051605	051630
24V 50/60Hz	021924	021594	021704	051596	051621
42V 50/60Hz	033459	029869	029433	051595	051620
110V 50/60Hz	021961	021624	021871	051592	051618
230V 50/60Hz	052725	052509	052508	056674	058771
DC	**DILER-40-G(...)**	**DILER-31-G(...)**	**DILER-22-G(...)**	**DILEEM-10-G(...)**	**DILEEM-01-G(...)**
	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list	See price list	See price list	See price list
12V DC	079711	079761	080728	051644	051649
24V DC	010223	010157	010042	051643	051650
48V DC	010255	010205	010346	051642	051648
110V DC	010287	010253	010043	051640	051646
220V DC	010303	010269	010091	051639	051645

Notes [1] To obtain the article number for ordering, read under selected part number and actuating voltage from the table. Devices with dual-voltage coils are to be ordered under a single article number.

AC		**DILEM-10(...)**	**DILEM-01(...)**	**DILEM12-10(...)**	**DILEM12-01(...)**	**DILEM4(...)**
		Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages		See price list	See price list	See price list	See price list	See price list
24V 50Hz		010005	010086	127067	127083	014754
48V 50Hz		010020	010294	–	–	–
240V 50Hz		010032	010151	–	–	014305
115V 60Hz		010024	010470	–	–	–
42V 50Hz, 48V 60Hz		051782	051791	–	–	–
110V 50Hz, 120V 60Hz		051783	051792	127072	127088	051801
190V 50Hz, 220V 60Hz		051784	051793	–	–	–
220V 50Hz, 240V 60Hz		051785	051794	–	–	051803
230V 50Hz, 240V 60Hz		051786	051795	–	–	051804
380V 50Hz, 440V 60Hz		051787	051796	–	–	–
400V 50Hz, 440V 60Hz		051788	051797	–	–	051806
415V 50Hz, 480V 60Hz		051789	–	–	–	–
24V 50/60Hz		021417	020402	127079	127095	022044
42V 50/60Hz		032174	033233	–	–	–
110V 50/60Hz		021455	020436	127081	127097	–
230V 50/60Hz		052302	051114	127082	127098	052506
DC		**DILEM-10-G(...)**	**DILEM-01-G(...)**	**DILEM12-10-G(...)**	**DILEEM12-01-G(...)**	**DILEM4-G(...)**
		Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages		See price list	See price list	See price list	See price list	See price list
12V DC		079594	079642	–	–	079680
24V DC		010213	010343	127132	127137	012701
48V DC		010245	010496	–	–	–
110V DC		010309	010136	–	–	–
220V DC		010325	010168	–	–	–

Notes

[1] To obtain the article number for ordering, read under selected part number and actuating voltage from the table. Devices with **dual-voltage coils** are to be ordered under a **single** article number.

DILA

HPL05072EN



AC	With screw terminals			With Spring-loaded terminals		
	DILA-40(...)	DILA-31(...)	DILA-22(...)	DILAC-40(...)	DILAC-31(...)	DILAC-22(...)
	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list	See price list	See price list	See price list	See price list
24V 50Hz	276316	276351	276386	276431	276463	276495
240V 50Hz	276318	276353	276388	–	–	–
110V 50Hz 120V 60Hz	276326	276361	276396	276438	276470	276502
190V 50Hz 220V 60Hz	276327	276362	276397	–	–	–
220V 50Hz 240V 60Hz	276328	276363	276398	–	–	–
230V 50Hz 240V 60Hz	276329	276364	276399	276441	276473	276505
380V 50Hz 440V 60Hz	276330	276365	276400	–	–	–
400V 50Hz 440V 60Hz	276331	276366	276401	–	–	–
24V 50Hz/60Hz	276333	276368	276403	276445	276477	276509
42V 50Hz/60Hz	276334	276369	276404	–	–	–
110V 50Hz/60Hz	276335	276370	276405	–	–	–
220V 50Hz/60Hz	276336	276371	276406	–	–	–
230V 50Hz/60Hz	276337	276372	276407	276449	276481	276513
Special voltages other than the already shown normal voltages [2]	See price list	See price list	See price list	See price list	See price list	See price list
...V 50Hz(12-500V)[3]	276341	276376	276411	276453	276485	276517
...V 60Hz(12-600V)[3]	276342	276377	276412	276454	276486	276518
DC	**With screw terminals**			**With Spring-loaded terminals**		
	DILA-40(...)	DILA-31(...)	DILA-22(...)	DILAC-40(...)	DILAC-31(...)	DILAC-22(...)
	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list	See price list	See price list	See price list	See price list
24V DC	276344	276379	276414	276456	276488	276520
48V DC	276345	276380	276415	–	–	–
110V DC	276347	276382	276417	276459	276491	276523
220V DC	276348	276383	276418	276460	276492	276524
Special voltages other than the already shown normal voltages [2]	See price list	See price list	See price list	See price list	See price list	See price list
...V DC(12-250V)[3]	276349	276384	276419	276461	276493	276525

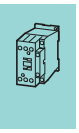
Notes

[1] The article number is a combination of part no. and operating voltage devices with dual-voltage coils can be ordered under a single article no.
[2] With non-standard voltages the required actuating voltage from the defined range (...–...V) must be stated.
[3] Minimum order quantity 10 units

AC	**DILM7-10 (...)**	**DILM7-01 (...)**	**DILM9-10 (...)**	**DILM9-01 (...)**	**DILM12-10 (...)**	**DILM12-01 (...)**	**DILM15-10 (...)**	**DILM15-01 (...)**
	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list
24V 50Hz	276537	276572	276677	276712	276817	276852	290045	290080
240V 50Hz	276539	276574	276679	276714	276819	276854	–	–
42V 50Hz 48V 60Hz	276546	–	276686	–	276826	–	–	–
110V 50Hz 120V 60Hz	276547	276582	276687	276722	276827	276862	290055	290090
190V 50Hz 220V 60Hz	276548	276583	276688	276723	276828	276863	–	–
220V 50Hz 240V 60Hz	276549	276584	276689	276724	276829	276864	–	–
230V 50Hz 240V 60Hz	276550	276585	276690	276725	276830	276865	290058	290093
380V 50Hz 440V 60Hz	276551	276586	276691	276726	276831	276866	–	–
400V 50Hz 440V 60Hz	276552	276587	276692	276727	276832	276867	–	–
415V 50Hz 480V 60Hz	276553	–	276693	–	276833	–	–	–
24V 50Hz/60Hz	276554	276589	276694	276729	276834	276869	290062	290097
42V 50Hz/60Hz	276555	276590	276695	276730	276835	276870	–	–
110V 50Hz/60Hz	276556	276591	276696	276731	276836	276871	–	–
220V 50Hz/60Hz	276557	276592	276697	276732	276837	276872	–	–
230V 50Hz/60Hz	276558	276593	276698	276733	276838	276873	290066	290101
Special voltages other than the already shown normal voltages [2]	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list
...V 50Hz (12 – 600V) [3]	276562	276597	276702	276737	276842	276877	290070	290105
...V 60Hz (12 – 600V) [3]	276563	276598	276703	276738	276843	276878	290071	290106
DC	**DILM7-10 (...)**	**DILM7-01 (...)**	**DILM9-10 (...)**	**DILM9-01 (...)**	**DILM12-10 (...)**	**DILM12-01 (...)**	**DILM15-10 (...)**	**DILM15-01 (...)**
	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list
24V DC	276565	276600	276705	276740	276845	276880	290073	290108
48V DC	276566	276601	276706	276741	276846	276881	–	–
110V DC	276568	276603	276708	276743	276848	276883	–	–
220V DC	276569	276604	276709	276744	276849	276884	–	–
Special voltages other than the already shown normal voltages[2]	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list
...V DC (12-250V) [3]	276570	276605	276710	276745	276850	276885	290078	290113

Notes

[1] To obtain the article number for ordering, read under selected part number and actuating voltage from the table. devices with dual-voltage coils can be ordered under a single article no.
[2] With non-standard voltages the required actuating voltage from the defined range (...–...V) must be stated.
[3] Minimum order quantity 10 units



AC		**DILM17-10 (...)**	**DILM17-01 (...)**	**DILM25-10 (...)**	**DILM25-01 (...)**	**DILM32-10 (...)**	**DILM32-01 (...)**	**DILM38-10(...)**	**DILM38-01(...)**
		Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages		See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list
24V 50Hz		276991	277023	277119	277151	277247	277279	112378	112446
240V 50Hz		276993	–	277121	–	277249	–	112420	–
42V 50Hz 48V 60Hz		277000	–	277128	–	277256	–	112424	–
110V 50Hz 120V 60Hz		277001	277033	277129	277161	277257	277289	112425	112454
190V 50Hz 220V 60Hz		277002	–	277130	–	277258	–	112426	–
220V 50Hz 240V 60Hz		277003	–	277131	–	277259	–	112427	–
230V 50Hz 240V 60Hz		277004	277036	277132	277164	277260	277292	112428	112457
380V 50Hz 440V 60Hz		277005	–	277133	–	277261	–	112429	–
400V 50Hz 440V 60Hz		277006	277038	277134	277166	277262	277294	112430	112459
415V 50Hz 480V 60Hz		277007	–	277135	–	277263	–	112431	–
24V 50Hz/60Hz		277008	277040	277136	277168	277264	277296	112432	112461
42V 50Hz/60Hz		277009	–	277137	–	277265	–	112433	–
110V 50Hz/60Hz		277010	277042	277138	277170	277266	277298	112434	112463
220V 50Hz/60Hz		277011	277043	277139	277171	277267	277299	112435	112464
230V 50Hz/60Hz		277012	277044	277140	277172	277268	277300	112436	112465
Special voltages other than the already shown normal voltages [2]		See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list
...V 50Hz (24 – 600V)		277016 [7]	277048 [7]	277144 [7]	277176 [7]	277272 [7]	277304 [8]	112440 [7]	112468 [7]
...V 60Hz (24 – 600V)		277017 [7]	277049 [7]	277145 [7]	277177 [7]	277273 [7]	277305 [8]	112441 [7]	112469 [7]
DC		**DILM17-10(...)**	**DILM17-01(...)**	**DILM25-10(...)**	**DILM25-01(...)**	**DILM32-10(...)**	**DILM32-01(...)**	**DILM38-10(...)**	**DILM38-01(...)**
		Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages		See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list
RDC 24 [3]		277018	277050	277146	277178	277274	277306	112442	112470
RDC 60 [4]		277019	277051	277147	277179	277275	277307	112443	112471
RDC 130 [5]		277020	277052	277148	277180	277276	277308	112444	112472
RDC 240 [6]		277021	277053	277149	277181	277277	277309	112445	112473

Notes

[1] To obtain the article number for ordering, read under selected part number and actuating voltage from the table. devices with dual-voltage coils can be ordered under a single article no.
[2] With non-standard voltages the required actuating voltage from the defined range (...–...V) must be stated.
[3] 24 – 27 V DC
[4] 48 – 60 V DC
[5] 110 – 130 V DC
[6] 200 – 240 V DC
[7] Minimum order quantity 10 units
[8] Minimum order quantity 5 units

AC		**DILM40(...)**	**DILM50(...)**	**DILM65(...)**	**DILM72(...)**
		Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages		See price list	See price list	See price list	See price list
24V 50Hz		277753	277817	277881	–
240V 50Hz		277755	277819	277883	109183
42V 50Hz **48V 60Hz**		277762	277826	277890	–
110V 50Hz **120V 60Hz**		277763	277827	277891	109191
190V 50Hz **220V 60Hz**		277764	277828	277892	–
220V 50Hz **240V 60Hz**		277765	277829	277893	–
230V 50Hz **240V 60Hz**		277766	277830	277894	107670
380V 50Hz **440V 60Hz**		277767	277831	277895	–
400V 50Hz **440V 60Hz**		277768	277832	277896	109195
415V 50Hz **480V 60Hz**		277769	277833	277897	–
24V 50Hz/60Hz		277770	277834	277898	109197
42V 50Hz/60Hz		277771	277835	277899	–
110V 50Hz/60Hz		277772	277836	277900	109199
220V 50Hz/60Hz		277773	277837	277901	109200
230V 50Hz/60Hz		277774	277838	277902	109201
Special voltages other than the already shown normal voltages [2]		See price list	See price list	See price list	See price list
...V 50Hz (24 – 600V)		277778 [8]	277842 [8]	277906 [8]	109205 [7]
...V 60Hz (24 – 600V)		277779 [8]	277843 [8]	277907 [8]	109206 [7]
DC		**DILM40(...)**	**DILM50(...)**	**DILM65(...)**	**DILM72(...)**
		Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages		See price list	See price list	See price list	See price list
RDC 24 [3]		277780	277844	277908	107671
RDC 60 [4]		277781	277845	277909	–
RDC 130 [5]		277782	277846	277910	–
RDC 240 [6]		277783	277847	277911	109209

Notes

1) To obtain the article number for ordering, read under selected part number and actuating voltage from the table.
devices with dual-voltage coils can be ordered under a single article no.
2) With non-standard voltages the required actuating voltage from the defined range (...–...V) must be stated.
3) 24 – 27 V DC
4) 48 – 60 V DC
5) 110 – 130 V DC
6) 200 – 240 V DC
7) Minimum order quantity 10 units

DILM

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AC		DILM80 (...)	DILM95 (...)
		Article no.[1]	Article no.[1]
Standard voltages		See price list	See price list
24 V 50 Hz		235904	239467
240V 50Hz		235910	239469
42V 50Hz 48V 60Hz		239394	239476
110V 50Hz 120V 60Hz		239399	239477
190V 50Hz 220V 60Hz		239400	239478
220V 50Hz 240V 60Hz		239401	239479
230V 50Hz 240V 60Hz		239402	239480
380V 50Hz 440V 60Hz		239403	239481
400V 50Hz 440V 60Hz		239404	239482
415V 50Hz 480V 60Hz		239405	239483
24V 50Hz/60Hz		239406	239484
42V 50Hz/60Hz		239407	239485
110V 50Hz/60Hz		239408	239486
220V 50Hz/60Hz		239409	239487
230V 50Hz/60Hz		239410	239488
Special voltages other than the already shown normal voltages [2]		See price list	See price list
...V 50Hz (24 – 600V) [13]		239414	239504
...V 60Hz (24 – 600V) [13]		239415	239509

DC		DILM80 (...)	DILM95 (...)
		Article no.[1]	Article no.[1]
Standard voltages		See price list	See price list
RDC 24[3]		239416	239510
RDC 60[4]		239417	239511
RDC 130[5]		239418	239512
RDC 240[6]		239419	239513

AC		DILM115 (...)	DILM150 (...)	DILM170 (...)	DILM185A/22(...)	DILM225A/22(...)
		Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages		See price list	See price list	See price list	See price list	See price list
RAC 24[7]		239545	239585	107010	139534	139544
RAC 48[8]		239546	239586	107011	139535	139545
RAC 120[9]		239547	239587	107012	139536	139546
RAC 240[10]		239548	239588	107013	139537	139547
RAC 440[11]		239549	239589	107014	139538	139548
RAC 500[12]		239550	239590	107015	139539	139549

DC		DILM115 (...)	DILM150 (...)	DILM170 (...)	DILM185A/22(...)	DILM225A/22(...)
		Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages		See price list	See price list	See price list	See price list	See price list
RDC 24[3]		239555	239591	107016	139540	139550
RDC 60[4]		239560	239592	107017	139541	139551
RDC 130[5]		239567	239593	107018	139542	139552
RDC 240[6]		239572	239594	107019	139543	139553

Notes

1) The article no. results from combining the part no. and the actuating voltage.
Devices with dual-voltage coils must be ordered under a single article no.
2) With non-standard voltages the required actuating voltage from the defined range (...–...V) must be stated.
3) 24 - 27 V DC
4) 48 – 60 V DC
5) 110 - 130 V DC
6) 200 - 240 V DC
7) 24 V 50/60 Hz
8) 42 – 48 V 50/60 Hz
9) 100 – 120 V 50/60 Hz
10) 190 – 240 V 50/60 Hz
11) 380 – 440 V 50/60 Hz
12) 480 – 500 V 50/60 Hz
13) Minimum order quantity 5 units

AC	DILMC7-10 (...)	DILMC7-01 (...)	DILMC9-10 (...)	DILMC9-01 (...)	DILMC12-10 (...)	DILMC12-01 (...)	DILMC15-10 (...)	DILMC15-01 (...)
	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list
24 V 50 Hz	277379	277411	277443	277475	277507	277539	293938	293933
110V 50Hz 120V 60Hz	277386	277418	277450	277482	277514	277546	293908	293943
230V 50Hz 240V 60Hz	277389	277421	277453	277485	277517	277549	293911	293946
24V 50Hz/60Hz	277393	277425	277457	277489	277521	277553	293915	293950
230V 50Hz/60Hz	277397	277429	277461	277493	277525	277557	293919	293954
Special voltages other than the already shown normal voltages [2]	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list
...V 50Hz (12 – 600V)[6]	277401	277433	277465	277497	277529	277561	293923	293958
...V 60Hz (12 – 600V)[6]	277402	277434	277466	277498	277530	277562	293924	293959

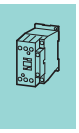
DC	DILMC7-10 (...)	DILMC7-01 (...)	DILMC9-10 (...)	DILMC9-01 (...)	DILMC12-10 (...)	DILMC12-01 (...)	DILMC15-10 (...)	DILMC15-01 (...)
	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list
24V DC	277404	277436	277468	277500	277532	277564	293926	293961
110V DC	277407	277439	277471	277503	277535	277567	293929	293964
220V DC	277408	277440	277472	277504	277536	277568	293930	293965
Special voltages other than the already shown normal voltages [2]	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list
...VDC (12 – 250V)[6]	277409	277441	277473	277505	277537	277569	293931	293966

AC	DILMC17-10 (...)	DILMC17-01(...)	DILMC25-10 (...)	DILMC25-01 (...)	DILMC32-10 (...)	DILMC32-01 (...)
	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list	See price list	See price list	See price list	See price list
24 V 50 Hz	277570	277600	277630	277660	277690	277720
110V 50Hz 120V 60Hz	277578	277608	277638	277668	277698	277728
230V 50Hz 240V 60Hz	277581	277611	277641	277671	277701	277731
24V 50Hz/60Hz	277585	277615	277645	277675	277705	277735
220V 50Hz/60Hz	277588	277618	277648	277678	277708	277738
230V 50Hz/60Hz	277589	277619	277649	277679	277709	277739
Special voltages other than the already shown normal voltages[2]	See price list	See price list	See price list	See price list	See price list	See price list
...V 50Hz (24 – 600V)[6]	277593	277623	277653	277683	277713	277743
...V 60Hz (24 – 600V)[6]	277594	277624	277654	277684	277714	277744

DC	DILMC17-10 (...)	DILMC17-01 (...)	DILMC25-10 (...)	DILMC25-01 (...)	DILMC32-10 (...)	DILMC32-01 (...)
	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list	See price list	See price list	See price list	See price list
RDC 24[3]	277595	277625	277655	277685	277715	277745
RDC 130[4]	277597	277627	277657	277687	277717	277747
RDC 240[5]	277598	277628	277658	277688	277718	277748

Notes

1) The article no. results from combining the part no. and the actuating voltage. Devices with dual-voltage coils must be ordered under a single article no.
2) With non-standard voltages the required actuating voltage from the defined range (...–...V) must be stated.
3) 24 - 27 V DC
4) 110 - 130 V DC
5) 200 - 240 V DC
6) Minimum order quantity 10 units



AC	**DILMP20 (…)**	**DILMP32-10**	**DILMP32-01**	**DILMP45-10**	**DILMP45-01**	**DILMP63 (…)**	**DILMP80 (…)**	**DILMP125 (…)**	**DILMP160 (…)**	**DILMP200 (…)**
	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list
240V 50Hz	–	109798	–	109827	–	109856	109885	–	–	–
110V 50Hz 120V 60Hz	276967	109790	118912	109819	118915	109848	109877	–	–	–
230 V 50Hz 240V 60Hz	276970	109797	118911	109826	118914	109855	109884	–	–	–
24V 50/60Hz	276974	109799	–	109828	–	109857	109886	–	–	–
230V 50/60Hz	276978	109796	–	109825	–	109883	109883	–	–	–
AC	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list
RAC 24[4]	–	–	–	–	–	–	–	109904	109914	109924
RAC 120[5]	–	–	–	–	–	–	–	109903	109913	109923
RAC 240[6]	–	–	–	–	–	–	–	109905	109915	109925
AC	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Non-standard voltages[2]	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list
…V 50Hz (12 – 600V)[3]	276982	109787	109787	109816	109816	109845	109874	–	–	–
…V 60Hz (12 – 600V)[3]	276983	109788	109788	109817	109817	109846	109875	–	–	–
DC	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list
24V DC	276985	–	–	–	–	–	–	–	–	–
RDC 24[7]	–	109811	118913	109840	118916	109869	109898	109910	109920	109930
DC	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Non-standard voltages[2]	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list
…V DC (12 – 250V)[3]	276990	–	–	–	–	–	–	–	–	–

Notes

[1] The article number is a combination of part no. and actuating voltage
[2] For non-standard voltages, state the actuating voltage selected from the range (…–…V) shown.
[3] Minimum order quantity: 10 units
[4] 24 V 50/60 Hz
[5] 100 – 120 V 50/60 Hz
[6] 190 – 240 V 50/60 Hz
[7] 24 – 27 V DC

AC	DILM32-XSP (...)	DILM65-XSP (...)	DILM95-XSP
	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list	See price list
24V 50Hz	281130	281160	229984
240V 50Hz	281132	281162	229986
24V 60Hz	281134	281164	229988
115V 60Hz	281136	281166	229990
42V 50Hz 48V 60Hz	281137	281167	229994
110V 50Hz 120V 60Hz	281138	281168	230058
190V 50Hz 220V 60Hz	281139	281169	230059
220V 50Hz 240V 60Hz	281140	281170	230061
230V 50Hz 240V 60Hz	281141	281171	230062
380V 50Hz 440V 60Hz	281142	281172	230063
400V 50Hz 440V 60Hz	281143	281173	230064
415V 50Hz 480V 60Hz	281144	281174	230065
24V 50Hz/60Hz	281145	281175	230066
42V 50Hz/60Hz	281146	281176	230067
110V 50Hz/60Hz	281147	281177	230068
220V 50Hz/60Hz	281148	281178	230073
230V 50Hz/60Hz	281149	281179	230074
Special voltages other than the already shown normal-voltages [2]	See price list	See price list	See price list
...V 50Hz (24 – 600V)	281153 [13]	281183 [14]	230078 [14]
...V 60Hz (24 – 600V)	281154 [13]	281184 [14]	230079 [14]

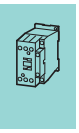
DC	DILM32-XSP (...)	DILM65-XSP (...)	DILM95-XSP
	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list	See price list
RDC 24[3]	281155	281185	230080
RDC 60[4]	281156	281186	230081
RDC 130[5]	281157	281187	230082
RDC 240[6]	281158	281188	230107

AC	DILM150-XSP (...)	DILM225A-XSP (...)
	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list
RAC 24[7]	230109	139562
RAC 48[8]	230110	139563
RAC 120[9]	230111	139564
RAC 240[10]	230112	139565
RAC 440[11]	230113	139566
RAC 500[12]	230114	139567

DC	DILM150-XSP (...)	DILM225A-XSP (...)
	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list
RDC 24[3]	230115	139568
RDC 60[4]	230116	139569
RDC 130[5]	230117	139570
RDC 240[6]	230122	139571

Notes

1) To obtain the article number for ordering, read under selected part number and actuating voltage from the table.
Devices with dual-voltage coils are to be ordered under a single article number.
2) With non-standard voltages the required actuating voltage from the defined range (...–...V) must be stated.
3) 24 – 27 V DC
4) 48 – 60 V DC
5) 110 – 130 V DC
6) 200 – 240 V DC
7) 24 V 50/60 Hz
8) 42 – 48 V 50/60 Hz
9) 100 – 120 V 50/60 Hz
10) 190 – 240 V 50/60 Hz
11) 380 – 440 V 50/60 Hz
12) 480 – 500 V 50/60 Hz
13) Minimum order quantity 10 units
14) Minimum order quantity 5 units



AC	**DILK12-11 (...)**	**DILK20-11 (...)**	**DILK25-11 (...)**	**DILK33-10 (...)**	**DILK50-10 (...)**
	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list	See price list	See price list	See price list
110V 50Hz, 120V 60Hz	293985	294007	294029	294051	294073
190V 50Hz, 220V 60Hz	293986	294008	294030	294052	294074
230V 50Hz, 240V 60Hz	293988	294010	294032	294054	294076
400V 50Hz, 440V 60Hz	293990	294012	294034	294056	294078
Special voltages other than the already shown normal voltages [2]	See price list	See price list	See price list		
...V 50Hz (24 – 600V) [3]	293997	294019	294041	–	–
...V 60Hz (24 – 600V) [3]	293998	294020	294042	–	–

Notes
[1] The article no. results from combining the part no. and the actuating voltage.
Devices with dual-voltage coils must be ordered under a single article no.
[2] With non-standard voltages the required actuating voltage from the defined range (...–...V) must be stated.
[3] Minimum order quantity 10 units

Contactors up to 150 A with electronic actuation

AC	**DILMF8-10 (...)**	**DILMF8-01 (...)**	**DILMF11-10 (...)**	**DILMF11-01 (...)**	**DILMF14-10 (...)**	**DILMF14-01 (...)**	**DILMF17-10 (...)**
	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list	See price list	See price list	See price list	See price list	See price list
RAC 24[1]	104410	104414	104418	104422	104426	104430	104434
RAC 48[3]	104411	104415	104419	104423	104427	104431	104435
RAC 120[4]	104412	104416	104420	104424	104428	104432	104436
RAC 240[5]	104413	104417	104421	104425	104429	104433	104437

AC	**DILMF17-01 (...)**	**DILMF25-10 (...)**	**DILMF25-01 (...)**	**DILMF32-10 (...)**	**DILMF32-01 (...)**	**DILMF40 (...)**	**DILMF50 (...)**
	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list	See price list	See price list	See price list	See price list	See price list
RAC 24[2]	104438	104442	104446	104450	104454	104458	104462
RAC 48[3]	104439	104443	104447	104451	104455	104459	104463
RAC 120[4]	104440	104444	104448	104452	104456	104460	104464
RAC 240[5]	104441	104445	104449	104453	104457	104461	104465

AC	**DILMF65 (...)**	**DILMF80 (...)**	**DILMF95 (...)**	**DILMF115 (...)**	**DILMF150 (...)**
	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	See price list	See price list	See price list	See price list	See price list
RAC 24[2]	104466	104470	104474	104478	104482
RAC 48[3]	104467	104471	104475	104479	104483
RAC 120[4]	104468	104472	104476	104480	104484
RAC 240[5]	104469	104473	104477	104481	104485

Notes
[1] The article no. results from combining the part no. and the actuating voltage.
[2] 24 - 24 V
[3] 42 - 48
[4] 100 - 120
[5] 190 - 240

Complete comfort devices	DILM250 /22(...)	DILM300A /22(...)	DILM400 /22(...)	DILM500 /22(...)	DILM580 /22(...)	DILM650 /22(...)	DILM750 /22(...)	DILM820 /22(...)	DILM1000 /22(...)
	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Voltage variants	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list	See price list
RDC 48 [2]	208199	139554	208207	208211	–	–	–	–	–
RA 110 [3]	208200	139555	208208	208212	208215	208218	208221	208224	–
RA 250 [4]	208201	139556	208209	208213	208216	208219	208222	208225	267214
RAC 500 [5] [6]	208202	139557	208210	208214	208217	208220	208223	208226	–

Complete units Standard	DILM250 -S/22(...)	DILM300A -S/22(...)	DILM400 -S/22(...)	DILM500 -S/22(...)
	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Voltage variants	See price list	See price list	See price list	See price list
110-120V 50/60Hz	274189	139558	274195	274198
220-240V 50/60Hz	274190	139559	274196	274199

Electronic module, incl. coil, for comfort model	DILM250-XSP/E(...)	DILM500-XSP/E(...)	DILM1000-XSP/E(...)
	Article no.[1]	Article no.[1]	Article no.[1]
Voltage variants	See price list	See price list	See price list
RDC 48 [2]	208250	208254	–
RA 110 [3]	208251	208255	289146
RA 250 [4]	208252	208256	289145
RAC 500 [5] [6]	208253	208257	289147

Electronic module, incl. coil, for standard model	DILM250-S-XSP/E(...)	DILM500-S-XSP/E(...)
	Article no.[1]	Article no.[1]
Voltage variants	See price list	See price list
110-120V 50/60Hz	274201	274204
220-240V 50/60Hz	274202	274205

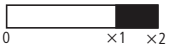
Notes

[1] The article no. results from combining the part no. and the voltage variant.
[2] 24 – 48 V DC
[3] 48 – 110 V 40 – 60 Hz/48 – 110 V DC
[4] 110 – 250 V 40 – 60 Hz/110 – 250 V DC
[5] 250 – 500 V 40 – 60 Hz
[6] DC on request

Engineering

The diagrams show the closing and opening travel of the contacts at no load.

N/O



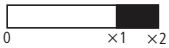
NC



		x1	x2
DILE AC	N/O	1.9	2.8
	NC	0.95	2.8
…DILE	N/O	1.9	2.8
	NC	0.9	2.8
…DDILE	NO early-make	1.06	2.9
	Late-break N/C contact	1.86	2.9
	N/O	1.9	2.8
	NC	0.9	2.8
DILE DC	N/O	1.9	2.85
	NC	0.95	2.85
DILE…	N/O	1.9	2.8
	NC	0.9	2.8
…DDILE	NO early-make	1.06	2.9
	Late-break N/C contact	1.86	2.9
	N/O	1.9	2.8
	NC	0.9	2.8
DILA-AC	N/O	3.3	4.5
	NC	1.0	4.5
DILA-XHI	N/O	3.2	4.5
	NC	1.6	4.5
DILA-XHIV	NO early-make	2.0	4.5
	Late-break N/C contact	2.8	4.5
	N/O	3.2	4.5
	NC	1.6	4.5
DILA-DC	N/O	2.1	2.9
	NC	0.7	2.9
DILA-XHI	N/O	2.3	2.9
	NC	0.7	2.9
DILA-XHIV	NO early-make	1.1	2.9
	Late-break N/C contact	1.9	2.9
	N/O	2.3	2.9
	NC	0.7	2.9
DILM7/9 AC	N/O	3.3	4.5
	NC	1.0	4.5
DILM32-XHI, DILA-XHI	N/O	3.2	4.5
	NC	1.6	4.5
DILA-XHIV	NO early-make	2.0	4.5
	Late-break N/C contact	2.8	4.5
	N/O	3.2	4.5
	NC	1.6	4.5
DILM7/9 DC	N/O	2.1	2.9
	NC	0.7	2.9
DILM32-XHI, DILA-XHI	N/O	2.3	2.9
	NC	0.7	2.9
DILA-XHIV	NO early-make	1.1	2.9
	Late-break N/C contact	1.9	2.9
	N/O	2.3	2.9
	NC	0.7	2.9
DILM12/15/P20 AC	N/O	3.3	4.5
	NC	1.0	4.5
DILM32-XHI, DILA-XHI	N/O	3.2	4.5
	NC	1.6	4.5
DILA-XHIV	NO early-make	2.0	4.5
	Late-break N/C contact	2.8	4.5
	N/O	3.2	4.5
	NC	1.6	4.5
DILM12/15/P20 DC	N/O	3.3	4.4
	NC	1.0	4.4
DILM32-XHI, DILA-XHI	N/O	3.2	4.4
	NC	1.6	4.4

The diagrams show the closing and opening travel of the contacts at no load.

N/O



NC



		x1	x2
DILA-XHIV	NO early-make	2.0	4.4
	Late-break N/C contact	2.8	4.4
	N/O	3.2	4.4
	NC	1.6	4.4
DILM17/25/32/P32/P45	N/O	4.0	6.0
	Auxiliary N/C	1.8	6.0
	Auxiliary N/O	3.2	6.0
DILM32-XHI, DILA-XHI	N/O	3.2	6.0
	NC	1.6	6.0
DILA-XHIV	NO early-make	2.0	6.0
	Late-break N/C contact	2.8	6.0
	N/O	3.2	6.0
	NC	1.6	6.0
DILM40/50/65/P63/P80	N/O	5.1	7.5
DILM150-XHI	N/O	5.7	7.5
	NC	3.9	7.5
DILM150-XHIV	NO early-make	3.8	7.5
	Late-break N/C contact	5.4	7.5
	N/O	5.7	7.5
	NC	3.9	7.5
DILM1000-XHI	N/O	5.5	7.5
	NC	3.6	7.5
DILM1000-XHIV	NO early-make	4.1	7.5
	Late-break N/C contact	5.0	7.5
DILM80/95/115/150/170/P125/P160/P200	N/O	8.0	11
DILM150-XHI	N/O	9.2	11
	NC	7.4	11
DILM150-XHIV	NO early-make	7.3	11
	Late-break N/C contact	8.9	11
	N/O	9.2	11
	NC	7.4	11
DILM1000-XHI	N/O	9.0	11
	NC	7.1	11
DILM1000-XHIV	NO early-make	7.6	11
	Late-break N/C contact	8.5	11
DILM185A/225A	N/O	10.0	13.0
DILM1000-XHI	N/O	10.0	13.0
	NC	8.1	13.0
DILM1000-XHIV	NO early-make	8.4	13.0
	Late-break N/C contact	9.5	13.0
DILM250/300A	N/O	10.1	13.1
DILM820-XHI	N/O	10.3	13.1
	NC	8.4	13.1
DILM820-XHIV	NO early-make	8.7	13.1
	Late-break N/C contact	9.8	13.1
DILM400/500/570	N/O	8.9	13.1
DILM820-XHI	N/O	10.3	13.1
	NC	8.4	13.1
DILM820-XHIV	NO early-make	8.7	13.1
	Late-break N/C contact	9.8	13.1
DILM580/650/750/820	N/O	2.0	4.1
DILM820-XHI	N/O	7.4	10.5
	NC	5.5	10.5
DILM820-XHIV	NO early-make	6.0	10.5
	Late-break N/C contact	6.8	10.5
DILM1000/1600, DILH1400/2000/2200/2600	N/O	2.0	4.1
DILM820-XHI	N/O	7.4	10.5
	NC	5.5	10.5
DILM820-XHIV	NO early-make	6.0	10.5
	Late-break N/C contact	6.8	10.5