

			Contactors		
			DILM185	DILM225 DILM250	DILM300 DILM400
Magnet systems					
Voltage tolerance					
DILM... comfort series	Pick-up	$\times U_c$	$0.7 \times U_{c \min} - 1.15 \times U_{c \max}$		
DILM...-S standard series	Pick-up	$\times U_c$	$0.85 \times U_{c \min} - 1.1 \times U_{c \max}$		
DILM... comfort series	Drop-out	$\times U_c$	$0.2 \times U_{c \min} - 0.6 \times U_{c \min}$		
DILM...-S standard series	Drop-out	$\times U_c$	$0.2 \times U_{c \min} - 0.4 \times U_{c \max}$		
Power consumption of the coil in a cold state and $1.0 \times U_c$					
DILM... comfort series	Pick-up	VA	380 ²⁾	380 ²⁾	450 ²⁾
DILM... comfort series	Pick-up	W	250	250	350
DILM... comfort series	Sealing	VA	4.3	4.3	4.3
DILM... comfort series	Sealing	W	3.3	3.3	3.3
DILM...-S standard series	Pick-up	VA	360 ⁴⁾	360 ⁴⁾	715 ⁴⁾
DILM...-S standard series	Pick-up	W	325	325	645
DILM...-S standard series	Sealing	VA	4.3	4.3	4.3
DILM...-S standard series	Sealing	W	3.3	3.3	3.3
Duty factor		% DF	100	100	100
Switching times at 100 % U_c (approximate values)					
Main contacts					
DILM... comfort series					
Closing delay		ms	100	100	80
Opening delay		ms	80	80	80
DILM...-S standard series					
Closing delay		ms	50	50	50
Opening delay		ms	40	40	40
Behaviour in marginal and transitional conditions					
Sealing					
Voltage interruptions					
$(0 \dots 0.2 \times U_{c \min}) \leq 10 \text{ ms}$			Time is bridged successfully		
$(0 \dots 0.2 \times U_{c \min}) > 10 \text{ ms}$			Drop-out of the contactor		
Voltage drops					
$(0.2 \dots 0.6 \times U_{c \min}) \leq 12 \text{ ms}$			Time is bridged successfully		
$(0.2 \dots 0.6 \times U_{c \min}) > 12 \text{ ms}$			Drop-out of the contactor		
$(0.6 \dots 0.7 \times U_{c \min})$			Contactor remains switched on		
Excess voltage					
$(1.15 \dots 1.3 \times U_{c \max})$			Contactor remains switched on		
$(> 1.3 \times U_{c \max}) \leq 3 \text{ s}$			Contactor remains switched on		
$(> 1.3 \times U_{c \max}) > 3 \text{ s}$			Drop-out of the contactor		
Pick-up phase					
$(0 \dots 0.7 \times U_{c \min})$			Contactor does not switch on		
$(0.7 \times U_{c \min} \dots 1.15 \times U_{c \max})$			Contactor switches on with certainty		
$(> 1.15 \times U_{c \max})$			Contactor switches on with certainty		
Admissible transitional contact resistance (of the external control circuit device when actuating A11)		mΩ	≤ 500	≤ 500	≤ 500
Max. admissible residual current (when A11 is actuated from the electroncis, 0 signal)		mA	≤ 1	≤ 1	≤ 1
SPS signal level (A3 - A4) to IEC/EN 61131-2 (type 2)					
High		V	15	15	15
Low		V	5	5	5
Electromagnetic compatibility (EMC)					
Electromagnetic compatibility			This product is designed for operation in industrial environments (environment 2). The use in residential environments (environment 1) could cause electrical interference so that addition suppression must be planned.		

Notes

- ¹⁾ $U_{c \min}$, $U_{c \max}$, see ...
- ²⁾ Control transformer with $u_k \leq 0.6$
- ³⁾ Control transformer with $u_k \leq 0.7$
- ⁴⁾ up to 690 V

						Contactors						
		DILM500	DILM580 DILM650	DILM750 DILM820	DILM1000	DILM1600	DILH1400 DILH2000					
Magnet systems												
Voltage tolerance												
$0.7 \times U_{c \min} - 1.15 \times U_{c \max}$												
$0.85 \times U_{c \min} - 1.1 \times U_{c \max}$												
$0.2 \times U_{c \min} - 0.6 \times U_{c \min}$												
$0.2 \times U_{c \min} - 0.4 \times U_{c \min}$												
Power consumption of the coil in a cold state and $1.0 \times U_c$												
DILM500		450 ²⁾	800 ³⁾	800 ³⁾	800 ³⁾	1600 ³⁾	800 ³⁾	1600 ³⁾				
DILM580		350	700	700	700	1400	700	1400				
DILM750		4.3	7.5	7.5	7.5	15	7.5	15				
DILM1000		3.3	6.5	6.5	6.5	13	6.5	13				
DILM1600		715 ⁴⁾	-	-	-	-	-	-				
DILH1400		645	-	-	-	-	-	-				
DILH2000		4.3	-	-	-	-	-	-				
DILM500		3.3	-	-	-	-	-	-				
DILM580		100	100	100	100	100	100	100				
DILM750		80	70	70	70	70	70	70				
DILM1000		80	70	70	70	40	40	40				
DILM1600		50	-	-	-	-	-	-				
DILH1400		40	-	-	-	-	-	-				
Behaviour in marginal and transitional conditions												
Sealing												
Voltage interruptions												
$(0 \dots 0.2 \times U_{c \min}) \leq 10 \text{ ms}$												
Time is bridged successfully												
$(0 \dots 0.2 \times U_{c \min}) > 10 \text{ ms}$												
Drop-out of the contactor												
Voltage drops												
$(0.2 \dots 0.6 \times U_{c \min}) \leq 12 \text{ ms}$												
Time is bridged successfully												
$(0.2 \dots 0.6 \times U_{c \min}) > 12 \text{ ms}$												
Drop-out of the contactor												
$(0.6 \dots 0.7 \times U_{c \min})$												
Contactor remains switched on												
Excess voltage												
$(1.15 \dots 1.3 \times U_{c \max})$												
Contactor remains switched on												
$(> 1.3 \times U_{c \max}) \leq 3 \text{ s}$												
Contactor remains switched on												
$(> 1.3 \times U_{c \max}) > 3 \text{ s}$												
Drop-out of the contactor												
Pick-up phase												
$(0 \dots 0.7 \times U_{c \min})$												
Contactor does not switch on												
$(0.7 \times U_{c \min} \dots 1.15 \times U_{c \max})$												
Contactor switches on with certainty												
$(> 1.15 \times U_{c \max})$												
Contactor switches on with certainty												
Admissible transitional contact resistance (of the external control circuit device when actuating A11)		≤ 500	≤ 500	≤ 500	≤ 500	≤ 500	≤ 500	≤ 500				
Max. admissible residual current (when A11 is actuated from the electroncis, 0 signal)		≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1				
SPS signal level (A3 - A4) to IEC/EN 61131-2 (type 2)												
High		15	15	15	15	15	15	15				
Low		5	5	5	5	5	5	5				
Electromagnetic compatibility (EMC)												
Electromagnetic compatibility			This product is designed for operation in industrial environments (environment 2). The use in residential environments (environment 1) could cause electrical interference so that addition suppression must be planned.									