



Index Low Voltage Worldwide

Contents

Alphabetic Order according to Type	10/2
Alphabetic Order according to Designation	10/4
Low Voltage Worldwide	10/8

Index

Alphabetic Order acc. to Type

Types	Product	Section/ page	Types	Product	Section/ page
A			CCL 18-01		
A 9-22 to A 75-22	4-pole Contactors with N.O. and N.C. Main Poles a.c. Operated	2/22	CE 5-01, CE 5-10	Auxiliary Contact Blocks for Contactors	4/2, 4/3
A 9-30 to A 110-30	3-pole Contactors - a.c. Operated	2/6, 2/7	CEL 18-01, CEL 18-10	Auxiliary Contact Blocks for Contactors	4/4, 4/5
A 9-40 to A 75-40	4-pole Contactors - a.c. Operated	2/22	CK-11	Auxiliary Contact for MMS	5/7
A 145-30 to A 300-30	3-pole Contactors - a.c. Operated	2/10, 2/11	D		
AA	Shunt release for MMS	5/5, 5/7, 5/9	DB	Separate Mounting Kit for Thermal O/L Relays	5/22
AE 45-22, AE 75-22	4-pole Contactors with N.O. and N.C. Main Poles d.c. Operated	2/26	DB 16E	Separate Mounting Kit for Electronic O/L Relay	5/24
AE 45-40 to AE 75-40	4-pole Contactors - d.c. Operated	2/26	DR 25	Remote Resetting Coils for Thermal O/L Relay	5/23
AE 50-30 to AE 110-30	3-pole Contactors - d.c. Operated	2/14, 2/15	DS 25	Remote Tripping Coils for Thermal O/L Relay	5/23
AF 45-22, AF 75-22	4-pole Contactors with N.O. and N.C. Main Pole a.c./d.c. Operated	2/31	DT 450	Mounting Kits for Thermal O/L Relays	5/22
AF 45-40 to AF 75-40	4-pole Contactors a.c./d.c. Operated	2/31	DT 500, DT 800	Mounting Kits for Electronic O/L Relays	5/25
AF 50-30 to AF 110-30	3-pole Contactors - a.c./d.c. Operated	2/18, 2/19	DX 25	Terminal Block for Thermal O/L Relays	5/22
AF 145-30 to AF 1650-30	3-pole Contactors - a.c./d.c. Operated	2/20, 2/21	DX 425	Terminal Insulation Barrier for MMS	5/9
AL 9-22 to AL 16-22	4-pole Contactors with N.O. and N.C. Main Poles d.c. Operated	2/26	E		
AL 9-30 to AL 40-30	3-pole Contactors - d.c. Operated	2/14, 2/15	E... DU	Electronic O/L Relay	5/24, 5/25
AL 9-40 to AL 16-40	4-pole Contactors - d.c. Operated	2/26	EH 1200	3-pole Contactors - a.c. or d.c. Operated	2/48, 2/49
AL 9Z-30 to AL 16Z-30	3-pole Contactors - d.c. Operated	2/14, 2/15	EK 110 to EK 1000	4-pole Contactors - a.c. Operated 4-pole Contactors - d.c. Operated	2/24 2/30
AM 45-22, AM 75-22	4-pole Magnetically Latched Contactors N.O. and N.C. Main Poles - d.c. Operated	2/46, 2/47	G		
AM 50-30, AM 75-30	3-pole Magnetically Latched Contactors d.c. Operated	2/46, 2/47	GA 75 and GAE 75	Contactors for d.c. Circuit Switching	2/44, 2/45
AS	Terminal support for MMS	5/7	H		
B			HK	Auxiliary Contacts for MMS	5/5, 5/7, 5/9
B 6 and B 7	Mini Contactors - a.c. Operated	6/2	K		
B6 S and B7 S	Mini Contactors for PLC's Outputs	6/5	K 6	Mini Contactor Relays - a.c. Operated	6/6
BA 5-50	Function Markers for Contactors Function Markers for Thermal O/L Relays	4/17 5/22	K6 S	Mini Contactor Relays for PLC's Outputs	6/6
BA 50	Function Markers for Mini Contactors	6/8	KC 6	Interface Mini Contactor Relays - d.c. Operated Mini Contactors Relays - d.c. Operated	6/6 6/6
BC 6 and BC 7	Mini Contactors - d.c. Operated Interface Mini Contactors - d.c. Operated	6/2 6/5	KH	Coils for EK... Contactors	4/44
BEA 7	Connecting Links between Mini Contactor and MMS	6/9	KP	Set including (for EK... Contactors) : d.c. Coil + Economy Resistor + Insertion Contact or Multi-frequency coil + Insertion Contact	4/44
BEA 16 ... BEA 110	Connecting Links between Contactor and MMS	4/29	KWK	Arc chutes for EK... Contactors	4/44
BEA 185 ... BEA 750	Connecting Bars between Contactor and MCCB	4/30	KZK	Main Contact sets for EK... Contactors	4/44
BED	Connections for Star-Delta Starters	4/27	L		
BEF 185 ... BEF 750	Connection Bars between Contactor and Switch Fuse	4/30	LB 6, LB 6-CA	Base with Soldering Pins for Mini Contactors	6/8
BEM	Connection Sets for Reversing Contactors	4/26	LD	Additional Terminal Block	4/23
BES	Connection Sets for Contactors	4/26	LF, LG, LH, LP and LY	Terminal Connecting Strips and Shorting Bars	4/25
BL5-F	Fuse Holder Block	4/16	LK	Control Lead Terminals	4/21
BL5-L	Lamp Holder Block	4/16	LP 6	Connecting Strip for Mini Contactors	6/8
BN 6	Plunger for Manual Operation on Mini Contactors	6/8	LT...	Terminal Shrouds for A 145 ... AF 750 Contactors	4/20
BP 16	Mounting Piece	4/17		Terminal Shrouds for Thermal O/L Relays	5/21, 5/23
BSM	Connections for Compact Reversing Contactors	6/8	LT... E	Terminal Shrouds for Electronic O/L Relays	5/25
BSS	Connections for 4-pole Reversing Contactors	4/42	LT...-EK	Terminal Shrouds for EK... Contactors	4/42
BX-TP	Sealing Cover for Pneumatic Timer	4/8	LT 6-B	Protective Cover for Mini Contactors	6/8
C			LW	Enlargement Terminal Pieces	4/24
CA 5...	Auxiliary Contact Blocks for Contactors	4/2, 4/3	LX	Extension Terminal Pieces	4/24
CA 6 and CAF 6	Auxiliary Contact Blocks for Mini Contactors	6/8	LZ	Connector Terminals for A 145 ... AF 460 Contactors	4/22
CAL 5-11	Auxiliary Contact Blocks for Contactors	4/4, 4/5	M		
CAL 16	Auxiliary Contact Blocks for Contactors	4/36, 4/37	MS 116	Manual Motor Starter	5/4
CAL 18-11	Auxiliary Contact Blocks for Contactors	4/4, 4/5	MS 325	Manual Motor Starter	5/6
CAL 18-11B	Auxiliary Contact Blocks for Contactors	4/4, 4/5	MS 450	Manual Motor Starter	5/8
CB 5	Impulse Contact Blocks for Contactors	4/16	MS 495	Manual Motor Starter	5/8
CC 5-01, CC 5-10	Auxiliary Contact Blocks for Contactors	4/2, 4/3			
CCL 5-11	Auxiliary Contact Blocks for Contactors	4/4, 4/5			
CCL 16	Auxiliary Contact Blocks for Contactors	4/36, 4/37			

Index

Alphabetic Order acc. to Type

Types	Product	Section/ page	Types	Product	Section/ page
N			V		
N	Contactors Relays - a.c. Operated	3/4, 3/5	VB 6 and VB 7	Compact Reversing Mini Contactors a.c. Operated - With Interlocking	6/3
NL	Contactors Relays - d.c. Operated	3/6, 3/7	VB 6A and VB 7A	Compact Reversing Mini Contactors a.c. Operated - With Safety Interlocking	6/4
NL Z	Contactors Relays - d.c. Operated	3/6, 3/7	VBC 6 and VBC 7	Compact Reversing Mini Contactors d.c. Operated - With Interlocking	6/3
O			VBC 6A and VBC 7A	Compact Reversing Mini Contactors d.c. Operated - With Safety Interlocking	6/4
OSZA	Connection Bars	4/30	VE 5-1, VE 5-2	Mechanical and Electrical Interlock Units	4/10, 4/11
P			VH 145, VH 300	Mechanical and Electrical Interlock Units	4/38, 4/39
PM26	Mounting Plates	4/28, 4/29	VH 800	Mechanical Interlock units	4/38, 4/39
PN	Mounting Plates	4/31, 4/43	VM 5-1	Mechanical Interlock Unit	4/10, 4/11
PR	Mounting Plates	4/31, 4/32	VM 300H	Mechanical Interlock Unit (Horizontal)	4/10, 4/11
R			VM 300/460H	Mechanical Interlock Unit (Horizontal)	4/10, 4/11
RA 5	Interface Relays for PLC's Outputs	4/18, 4/19	VM 300V	Mechanical Interlock Unit (Vertical)	4/10, 4/11
RC 5	Surge Suppressors for Contactor Coils	4/14, 4/15	VM 300/460V	Mechanical Interlock Unit (Vertical)	4/10, 4/11
RC-EH	Surge Suppressors for Contactor Coils	4/40, 4/41	VM 750H	Mechanical Interlock Unit (Horizontal)	4/10, 4/11
RT 5	Surge Suppressors for Contactor Coils	4/14, 4/15	VM 750V	Mechanical Interlock Unit (Vertical)	4/10, 4/11
RT5-AM	Diode for AM... Contactors	4/34	VM 1650H	Mechanical Interlock Unit (Horizontal)	4/10, 4/11
RV 5	Surge Suppressors for Contactor Coils	4/14, 4/15	W		
RV-BC6	Surge Suppressors for Mini Contactor Coils	6/8	WB 75-A	Mechanical Latching Unit	4/12, 4/13
S			Z		
SA	Locking Device for MMS	5/5, 5/7	ZA	a.c. Coils for A Contactors and N Contactor Relays	4/34
SK	Signal Contact for MMS	5/5, 5/7, 5/9	ZAE	d.c. Coils for AE Contactors	4/34
S3-M3	Power Infeed Block for MMS	5/7	ZAF	a.c./d.c. Coils for AF Contactors with Electronic Interface	4/34
T			ZAM	d.c. Coil for AM Contactors	4/34
T 7 DU	Thermal O/L Relays for Mini Contactors	5/18, 6/14	ZL and ZLU	Main Contact Sets for 3-pole Contactors	4/33
TA... DU	Thermal O/L Relays for Contactors	5/19 ... 5/21	ZLT	Main Contact Sets for 4-pole Contactors	4/33
TA... DU... V1000	Thermal O/L Relays (ATEX Motor Protection)	5/19 ... 5/21	ZP 1650	Printed circuit board for AF 1350, AF 1650 Contactors	4/34
TAE 45-40 to TAE 75-40	4-pole Contactors - d.c. Operated with Large Coil Voltage Range	2/28	ZW	Arc Chutes for 3-pole Contactors	4/33
TAE 50-30 to TAE 110-30	3-pole Contactors - d.c. Operated with Large Coil Voltage Range	2/16			
TAL 9-22 to TAL 26-22	4-pole Contactors with N.O. and N.C. Main Poles d.c. Operated - Large Coil Voltage Range	2/28			
TAL 9-30 to TAL 40-30	3-pole Contactors - d.c. Operated with Large Coil Voltage Range	2/16			
TAL 9-40 to TAL 26-40	4-pole Contactors - d.c. Operated with Large Coil Voltage Range	2/28			
TBC 7	Mini Contactors - d.c. Operated with Large Coil Voltage Range	6/7			
TE5S	Electronic Timer for Star-Delta Starters	4/6, 4/7			
TKC 6	Mini Contactor Relays - d.c. Operated with Large Coil Voltage Range	6/7			
TNL	Contactors Relays - d.c. Operated with Large Coil Voltage Range	3/6, 3/7			
TP ... DA	Pneumatic Timer Block (Timing on Energization)	4/8, 4/9			
TP ... IA	Pneumatic Timer Block (Timing on de-energization)	4/8, 4/9			
U					
UA, UA1, UA4, UAF	Undervoltage release for MMS	5/5, 5/7, 5/9			
UA 16 to UA 110	3-pole Contactors for 3-phase Capacitor Switching	2/38, 2/39			
UA 16..RA to UA 110..RA	3-pole Contactors c/w resistors for 3-phase Capacitor Switching	2/34, 2/35			

Index

Alphabetic Order acc. to Designation

Designation	Section/ page	Designation	Section/ page
A			
Accessories for Contactors and Contactor Relays	section 4	COFRAC	7/3
Accessories (Fitting details)		Coils	
– A 9 ... A 110 3-pole Contactors	2/8	– Coils for A... Series Contactors (Ordering details)	4/34
– A145 ... AF 1650 3-pole Contactors	2/12	– Coils for EK... Series Contactors (Ordering details)	4/44
– AE 50 ... AE 110 3-pole Contactors	2/17	– Coils for Remote Resetting or Tripping of the Thermal O/L Relays	5/23
– AL 9... AL 40 3-pole Contactors	2/17	Compatibility of Accessories: see "Fitting of Accessories"	–
– AL 9Z ... AL 16Z 3-pole Contactors	2/17	Conditions for Use	
– A 9 ... A 75 4-pole Contactors	2/23	– A... Series Contactors	2/72, 2/73
– AE 45 ... AE 75 4-pole Contactors	2/27	– EK... Series Contactors	2/79
– AL 9 ... AL 26 4-pole Contactors	2/27	– N..., NL..., NL Z... and TNL... Contactor Relays	3/13
– EK... 4-pole Contactors	2/25	Conformity (Standards - Approvals - Certification)	7/3 ... 7/5
– N... Contactor Relays	3/8	Connecting Characteristics	
– NL... NL Z... and TNL... Contactor Relays	3/9	– A... Series Contactors	2/74, 2/75
– TAE 50 ... TAE 110 3-pole Contactors	2/17	– EK... Series Contactors	2/80
– TAL 9... TAL 40 3-pole Contactors	2/17	– N..., NL..., NL Z... and TNL... Contactor Relays	3/14
– TAE 45 ... TAE 75 4-pole Contactors	2/29	Connection Accessories	
– TAL 9 ... TAL 26 4-pole Contactors	2/29	– Connecting Auxiliaries for Control Leads (A 45 ... A 110 Contactors)	4/21
Accessories for Manual Motor Starters	5/5, 5/7, 5/9	– Connecting Links (Between contactors and MMS)	4/28
Accessories for Mini Contactors	6/8, 6/9	– Connecting Links (Between mini contactors and MMS)	6/9
Accessories for Overload Relays	5/22 ... 5/25	– Connecting Links for Mini Contactors	6/8
Amp-rating according to CSA and UL (Main Pole Utilization Characteristics)	section 2	– Connecting Kits for Electronic O/L Relays	5/25
Applications (Contactor selection for specific applications):		– Connecting Kits for Thermal O/L Relays	5/22
– Autotransformer Starters	2/54	– Connecting Terminal Blocks (Increasing capacity)	4/23
– Capacitor Switching	2/32 ... 2/43	– Connecting Terminal Enlargement Pieces	4/24
– Control of Three-phase Slip-Ring Motors	2/52, 2/53	– Connecting Terminal Extension Pieces	4/24
– d.c. Circuit Switching	2/60 ... 2/62	– Connecting Terminal Strips (For parallel and series connections)	4/25
– Lighting Circuit Switching	2/56 ... 2/59	– Connection Bars (Between contactor and MCCB)	4/30
– LV/LV Three-phase Transformer Switching	2/55	– Connection Bars (Between contactor and switch fuse)	4/30
– Star-Delta Starting	2/50, 2/51	– Connection Sets (Connect. between the main poles of 2 contactors)	4/26
Applications (Electronic O/L relays):		– Connection Sets for Star-Delta Starters	4/27
– Frequent starts	5/39	– Connection Sets for EK... Contactors (Reversing contactors)	4/42
Applications (Mini contactor selection):		– Connector Terminals for A 145 ... AF 1650 Contactors	4/22
– d.c. Circuit Switching	6/11	Connection of Main Poles (Parallel connection)	2/90
– Lighting Circuit Switching	6/13	Connection: Terminal Marking and Positioning	8/1 ... 8/17
Approvals and Certifications : Contactors and O/L Relays	7/4, 7/5	Contacts:	
Approvals and Certifications : Mini Contactors and Mini O/L Relays	6/16	– Auxiliary Contacts (A... series contactors)	4/2 ... 4/5
Arc Chutes for A... Series Contactors	4/33	– Auxiliary Contacts (EK... series contactors)	4/36, 4/37
Arc Chutes for EK... Series Contactors	4/44	– Auxiliary Contacts (Manual Motor Starters)	5/5, 5/7, 5/9
ASEFA	7/3	– Auxiliary Contacts (Mini contactors)	6/8
Autotransformer Starters (Contactor selection)	2/54	– Impulse Contacts (A... series contactors)	4/16
Auxiliary Contact Blocks for A... Series Contactors	4/2 ... 4/5	– Main Contacts Sets for A... Series Contactors	4/33
Auxiliary Contact Block for EK ... Series Contactors	4/36, 4/37	– Main Contacts Sets for EK... Series Contactors	4/44
Auxiliary Contact Blocks for Manual Motor Starters	5/5, 5/7, 5/9	Contactors (3-pole types):	
Auxiliary Contact Blocks for Mini Contactors	6/8	– A 9 ... A 110 (a.c. operated)	2/6, 2/7
Auxiliary Contacts for Safety Circuits	2/63, 3/15	– A 145 ... AF 1650 (a.c. operated)	2/10, 2/11
		– AE 50 ... AE 110 (d.c. operated)	2/14, 2/15
		– AF 50 ... AF 110 (electronic coil interface - a.c. / d.c. operated)	2/18, 2/19
		– AF 145 ... AF 1650 (electronic coil interface - a.c. / d.c. operated)	2/20, 2/21
		– AL 9 ... AL 40 (d.c. operated)	2/14, 2/15
		– AL 9Z ... AL 16Z (d.c. operated)	2/14, 2/15
		– TAE 50 ... TAE 110 (d.c. operated - large coil voltage range)	2/16
		– TAL 9 ... TAL 40 (d.c. operated - large coil voltage range)	2/16
		Contactors (4-pole types) with 4 N.O. Main Poles:	
		– A 9 ... A 75 (a.c. operated)	2/22
		– AE 45 ... AE 75 (d.c. operated)	2/26
		– AF 45 ... AF 75 (electronic coil interface - a.c. / d.c. operated)	2/31
		– AL 9 ... AL 26 (d.c. operated)	2/26
		– EK 110 ... EK 1000 (a.c. operated)	2/24
		– EK 110 ... EK 1000 (d.c. operated)	2/30
		– TAE45 ... TAE 75 (d.c. operated - large coil voltage range)	2/28
		– TAL 9 ... TAL 26 (d.c. operated - large coil voltage range)	2/28
		Contactors (4-pole types) with 2 N.O. + 2 N.C. Main Poles:	
		– A 9 ... A 75 (a.c. operated)	2/22
		– AE 45, AE 75 (d.c. operated)	2/26
		– AF 45, AF 75 (electronic coil interface - a.c. / d.c. operated)	2/31
		– AL 9 ... AL 26 (d.c. operated)	2/26
		– TAL 9 ... TAL 26 (d.c. operated - large coil voltage range)	2/28
		Contactors (Specific types):	
		– AM... Magnetically Latched Contactors	2/46, 2/47
		– EH 1200 Contactor for non Inductive Loads	2/48, 2/49
		– GA 75 and GAE 75 Contactors for d.c. Switching	2/44, 2/45
		– UA... Contactors for Capacitor Switching	2/38 ... 2/41
		– UA...RA Contactors for Capacitor Switching	2/34 ... 2/37
		Contactors (Selection for specific applications)	2/32 and following
B			
Base with Soldering Pins for Mini Contactors	6/8		
Block Accessories: see "Accessories"	–		
Block Contactors	2/1		
BV Bureau Veritas: see "Other Specifications and Certifications"	7/2		
C			
Capacitor Switching	2/32 ... 2/43		
Category: Utilization Categories	7/8, 7/9		
CE Marking	7/2		
CENELEC: see "European and National Specifications"	7/2		
Certifications and Approvals: Contactors MMS and O/L Relays	7/4, 7/5		
Certifications and Approvals: Mini Contactors and Mini O/L Relays	6/16		
Certifying Organisations	7/3		
Climate (Climatic withstand of devices)	7/11		
Codes for Coil Voltage			
– Contactors and Contactor Relays	0/1		
– Mechanical Latching Unit	4/12		
– Mini Contactors - Mini Contactor Relays	6/1, 6/7		

Index

Alphabetic Order acc. to Designation

Designation	Section/page
Contactor Relays	
– N... (a.c. operated)	3/4, 3/5
– NL... (d.c. operated)	3/6, 3/7
– NL Z... (d.c. operated)	3/6, 3/7
– TNL... (d.c. operated - large coil voltage range)	3/6, 3/7
Control Circuit (Influence of the length of the conductors used)	2/88, 2/89
Controlled Supply: see "Electronic coil interface"	–
Coordination with the Short-Circuit Protection Devices	5/15, 5/40, 7/12
Cover for TP Pneumatic Timers (Sealing cover)	4/8
CSA: see "Specifications in Canada and the USA"	7/2
Current: Nominal Powers and Currents	0/0
Current: Direct current (Contactor selection)	2/60 ... 2/62
Current: (Peak current for capacitor switching)	2/34, 2/38, 2/42
Curves:	
– Electrical Durability and Utilization Categories for Contactors	2/81 ... 2/87
– Electrical Durability for Auxiliary Contacts (A... series)	4/35
– Electrical Durability for Auxiliary Contacts (EK... series)	4/45
– Influence of the Length of the Control Circuit Conductors	2/88, 2/89
– Tripping Curves for Electronic O/L Relays	5/38
– Tripping Curves for T7 Thermal O/L Relay	5/33, 6/14
– Tripping Curves for TA... Thermal O/L Relays	5/33

D

d.c. Circuit Switching:	
– A... Series Contactors	2/60, 2/61
– EK... Series Contactors	2/62
– GA75 and GAE 75 Contactors for d.c. Switching	2/44
– Mini Contactors and Compact Reversing Contactors	6/11
Degrees of protection	7/10
Diagrams	
– 4-pole Contactors with 2 N.O. + 2 N.C. Main Poles	2/22, 2/26, 2/28, 2/31
– Autotransformer Starters	2/54
– Control of Three-Phase Slip-Ring Motors	2/53
– d.c. Circuit Switching (GA 75 and GAE 75 Contactors)	2/45
– Lighting Circuit Switching	2/56
– Star-Delta Starting	2/51
Diagrams: see "Terminal Marking and Positioning"	8/1 ... 8/17
Dimensions	9/1 ... 9/78
Direct Opening Action : (Auxiliary Contacts for Safety Circuits)	2/63, 3/15
Directives: see "European Directives"	
– 73/23/EEC Low Voltage Directive	7/2
– 89/336/EEC Electromagnetic Compatibility Directive	7/2
– 89/392/EEC Machine Directives	7/2
Distance: see "Mounting distance"	–
DNV Det Norske Veritas: see "Other Specifications and Certifications"	7/2
Drilling Plans: see "Dimensions"	9/1 ... 9/78
Durability:	
– Electrical Durability and Utilization Categories for Contactors	2/81 ... 2/87
– Electrical Durability for Auxiliary Contacts (A... series)	4/35
– Electrical Durability for Auxiliary Contacts (EK... series)	4/45
Duty: Intermittent Duty and Temporary Duty	2/91

E

Electrical Durability and Utilization Categories for Contactors	2/81 ... 2/87
Electrical Durability for Auxiliary Contacts (A... series)	4/35
Electrical Durability for Auxiliary Contacts (EK... series)	4/45
Electromagnetic Compatibility (AF... Contactors)	2/19, 2/21, 2/31
Electronic Coil Interface (AF... Contactors)	2/19, 2/21, 2/31
Electronic O/L Relays for Contactors	5/24, 5/25
Electronic O/L Relays for Mini Contactors	5/24
Enlargement Terminal Parts	4/24
Environment	1/13
European Directives	7/2
Extension Terminal Parts	4/24

Designation	Section/page
F	
Faston: see Mini Contactors with Flat Pin Connection	section 6
Fitting of Accessories	
– A 9 ... A 110 3-pole Contactors	2/8
– A145 ... AF 1650 3-pole Contactors	2/12
– AE 50 ... AE 110 3-pole Contactors	2/17
– AL 9... AL 40 3-pole Contactors	2/17
– AL 9Z ... AL 16Z 3-pole Contactors	2/17
– A 9 ... A 75 4-pole Contactors	2/23
– AE 45 ... AE 75 4-pole Contactors	2/27
– AL 9 ... AL 26 4-pole Contactors	2/27
– EK... 4-pole Contactors	2/25
– N... Contactor Relays	3/8
– NL... NL Z... and TNL... Contactor Relays	3/9
– TAE 50 ... TAE 110 3-pole Contactors	2/17
– TAL 9... TAL 40 3-pole Contactors	2/17
– TAE 45 ... TAE 75 4-pole Contactors	2/29
– TAL 9 ... TAL 26 4-pole Contactors	2/29
Function Marker for Contactors	4/17
Function Marker for Mini Contactors	6/8
Function Marker for O/L Relays	5/22
Fuse Holder Block	4/16

G

General Technical Data	7/2 ... 7/11
GL Germanisher Lloyd: see "Other Specifications and Certifications"	7/2
Guarantee	1/12

H

Holder for Fuse	4/16
Holder for Lamp	4/16

I

Identification Markers: see "Function Markers"	–
IEC: see "International Specifications"	7/2
Impulse Contact Blocks	4/16
Industrial ^{IT}	1/13
Influence of the Length of Conductors used in the Control Circuit	2/88, 2/89
Interface Mini Contactors	6/5
Interface Mini Contactor Relays	6/6
Interface Relays for PLC's Outputs	4/18, 4/19
Interlock Units for A... Series Contactors	4/10, 4/11
Interlock Units for EK... Series Contactors	4/38, 4/39
Intermittent Duty (Temporary or intermittent duty)	2/91
IP Degrees of Protection	7/10
ISO: see "International Specifications"	7/2
ISO 14001: see "Environment"	1/13
ISO 9000: see "Quality"	1/12

J

Joule Losses per Phase and Resistances	
– E 16 DU Electronic O/L Relay	5/38
– Thermal O/L Relays	5/30, 5/31

K

Kits for Mounting of the Electronic O/L Relays	5/24, 5/25
Kits for Mounting of the Thermal O/L Relays	5/22

L

Lagging Contacts	3/5, 4/2 ... 4/5
Lamp Holder Block	4/16

Index

Alphabetic Order acc. to Designation

Designation	Section/ page	Designation	Section/ page
Large Coil Voltage Range (Contactor Types)		Ordering Details - Contactor Relays	
– AF... Contactors	2/18 ... 2/21, 2/31	– N... (a.c. operated)	3/5
– TAE... Contactors	2/16, 2/28	– NL... (d.c. operated)	3/7
– TAL... Contactors	2/16, 2/28	– NL Z... (d.c. operated)	3/7
– TNL... Contactor Relays	3/6, 3/7	– TNL... (d.c. operated - large coil voltage range)	3/7
– TBC 7 Mini Contactors	6/7	Ordering Details - Accessories for Contactor	section 4
– TKC 6 Mini Contactor Relays	6/7	Ordering Details - Accessories for Contactor Relays	section 4
Latched Contactors	2/46, 2/47	Ordering Details - Mini Contactors	
Latching Unit for A... Series Contactors	4/12, 4/13	– Mini Contactors	6/2, 6/7
Leading Contacts	3/5, 4/2 ... 4/5	– Compact Reversing Contactors	6/3, 6/4
Length of the Conductors used in the Control Circuit	2/88, 2/89	– Interface Mini Contactors	6/5
Liability	1/12	– Mini Contactors for Connection to PLC's	6/5
Lighting Circuit Switching:		– Mini Contactors Relays	6/6, 6/7
– Contactor Selection	2/56 ... 2/59	– Interface Mini Contactor Relays	6/6
– Mini Contactor and Compact Reversing Contactor Selection	6/13	– Interface Mini Contactors for Connection to PLC's	6/6
Linked Contacts	2/63, 3/15	– Accessories for Mini Contactors	6/8, 6/9
Locking device for Manual Motor Starters	5/5, 5/7	Ordering Details - O/L Relays: see Overload Relays	–
LOVAG	7/3	Ordering Details - Manual Motor Starters	5/4, 5/6, 5/8
LRS Lloyd's Register of Shipping: see "Other Specif. and Certifications"	7/2	Overload Relays	
M			
Magnet System Characteristics: see "Technical Data"	–	– Panorama	5/16, 5/17
Manual Motor Starters	5/2 ... 5/15	– O/L Relays for A 9 ... A 110 Contactors	2/9
Markers: see "Function Markers"	–	– O/L Relays for A 145 ... AF 1650 Contactors	2/13
Marking - CE Marking: see "European Directives"	7/2	– Electronic O/L Relays for Contactor Range	5/24, 5/25
Marking - Terminal Marking and Positioning	8/1 ... 8/17	– Electronic O/L Relay for Mini Contactors	5/24
Mini Contactors	6/1	– Thermal O/L Relays for Contactor Range	5/19 ... 5/21
Mirror Contactors	2/63	– Thermal O/L Relay for Mini Contactors	5/18, 6/14, 6/15
Mounting Characteristics: see "Technical Data"	–	– Accessories for Thermal O/L Relays	5/22, 5/23
Mounting Distances to Insulated Wall: see "Dimensions"	section 9	– Accessories for Electronic O/L relays	5/25
Mounting Kits for Electronic O/L Relays	5/24, 5/25	Overview (Product Range Presentation)	1/1 ... 1/8
Mounting Kits for Thermal O/L Relays	5/22	P	
Mounting Pieces for A 9... A 16 Contactors, N... Contactor Relays and variants	4/17	Packaging - General Informations	0/2
Mounting Positions: see "Technical Data"	–	Packaging of the Equipments and Accessories: see "Ordering Details" pages	–
Motors: Rated Operational Powers and Currents	0/0	Panorama (3-pole block contactors)	2/2, 2/3
Motor-rating according to CSA and UL (Main Pole Utilization Characteristics)	section 2	Panorama (4-pole block contactors)	2/4, 2/5
MRS Maritime Register of Shipping: see "Other Specif. and Certifications"	7/2	Panorama (Contactor relays)	3/2, 3/3
O			
Ordering Details - General Informations	0/2	Panorama (Manual Motor Starters)	5/2, 5/3
Ordering Details - Accessories	section 4	Panorama (Overload relays)	5/16, 5/17
Ordering Details - Contactors		Parallel Connection of Main Poles	2/90
– Contactors (3-pole types):		Peak Current for Capacitor Switching	2/34, 2/38 2/42
A 9 ... A 110 (a.c. operated)	2/7	Plates for A 9 ... A 26 and AL 9 ... AL 26 Contactors	4/28, 4/29
A 145 ... AF 1650 (a.c. / d.c. operated)	2/11	Plates for A 95 ... AF 750 Contactors	4/31, 4/32
AE 50 ... AE 110 (d.c. operated)	2/15	Plates for EK... Contactors	4/43
AF 50 ... AF 110 (electronic coil interface - a.c. / d.c. operated)	2/19	PLC's Outputs	
AF 145 ... AF 1650 (electronic coil interface - a.c. / d.c. operated)	2/21	– Contactors AF... for PLC's Outputs	2/19, 2/21, 2/31
AL 9 ... AL 40 (d.c. operated)	2/15	– Contactors AL... and AL..Z... for PLC's Outputs	2/15, 2/26
AL 9Z ... AL 16Z (d.c. operated)	2/15	– Interface Relays for PLC's Outputs	4/18, 4/19
TAE 50 ... TAE 110 (d.c. operated - large coil voltage range)	2/16	– Mini Contactors for PLC's Outputs	6/5
TAL 9 ... TAL 40 (d.c. operated - large coil voltage range)	2/16	– Mini Contactor Relays for PLC's Outputs	6/6
– Contactors (4-pole types):		Plunger for Manual Operation on Mini Contactors	6/8
A 9 ... A 75 (a.c. operated)	2/22	Poles (Utilization characteristics)	
AE 45 ... AE 75 (d.c. operated)	2/26	– A... Series Contactors	2/64 ... 2/67
AF 45 ... AF 75 (electronic coil interface - a.c. / d.c. operated)	2/31	– EK... Series Contactors	2/76, 2/77
AL 9 ... AL 26 (d.c. operated)	2/26	– Mini Contactors	6/10, 6/11
EK 110 ... EK 1000 (a.c. operated)	2/24	Positioning and Marking of the Terminals	8/1 ... 8/17
EK 110 ... EK 1000 (d.c. operated)	2/30	Power: Rated Operational Powers and Currents	0/0
TAE45 ... TAE 75 (d.c. operated - large coil voltage range)	2/28	Product Range Presentation (Overview)	1/1... 1/8
TAL 9 ... TAL 26 (d.c. operated - large coil voltage range)	2/28	Protection Devices - Coordination	5/15, 5/40, 7/12
– Contactors (Specific types):		Protection - IP Protection Degrees	7/10
AM... Magnetically Latched Contactors	2/47	Protective Cover for Mini Contactors	6/8
EH 1200 Contactor for non Inductive Loads	2/49	PRS Polski Rejestr Statkow: see "Other Specifications an Certifications"	7/2
GA 75 and GAE 75 Contactors for d.c. Switching	2/45	Q	
UA... Contactors for Capacitor Switching	2/39	Quality Assurance: see "Quality"	1/12
UA..RA Contactors for Capacitor Switching	2/35	Questionnaire for Product Specifications	2/92

Index

Alphabetic Order acc. to Designation

Designation	Section/ page	Designation	Section/ page
R			
Relays for interface with PLC's Outputs	4/18, 4/19	Technical data for UA... contactors – Specific Technical Data	2/41
Resistances and Joule Losses per Phase:		Technical data for UA..RA contactors – Specific Technical Data	2/37
– E 16 DU Electronic O/L Relay	5/38	Technical data for N..., NL..., NL Z... and TNL... Contactor Relays	
– T7 DU Thermal O/L Relay	5/30	– Contacts Utilization characteristics	3/10
– TA... Thermal O/L Relays	5/30, 5/31	– General Technical Data	3/11
R.I.Na Registro Italiano Navale: see "Other Specif. and Certifications"	7/2	– Magnet System Characteristics	3/12
Remote Resetting / Remote Tripping of the Thermal O/L Relays	5/23	– Mounting Characteristics	3/13
Reversing Mini Contactors	6/3, 6/4	– Conditions for Use	3/13
S		– Mounting Positions	3/13
Safety Circuits (Auxiliary contacts for safety circuits)	2/63, 3/15	– Connecting Characteristics	3/14
Screws for Terminals: see "Technical data - Connecting Characteristics"	–	Technical Data for Add-on Accessories	
Selection of the Contactors for AC-3 Category		– Auxiliary Contact Blocks for A... Series Contactors	4/3, 4/5
– see "Panorama"	2/2, 2/3	– Auxiliary Contact Blocks for EK... Series Contactors	4/37
– see "Ordering Details" pages	–	– Timer: TE 5S Electronic Timer for Star-Delta Starters	4/7
Selection of the Contactors for AC-1 Category		– Timer: TP Pneumatic Timer Block	4/9
– see "Panorama"	2/2 ... 2/5	– Interlock Units for A... Series Contactors	4/10
– see "Ordering Details" pages	–	– Interlock Units for EK... Series Contactors	4/39
Selection of the Contactors for Specific Applications: see "Applications"	–	– Latching Unit for A... Series Contactors	4/13
Selection of the Thermal O/L Relays for ATEX Protection Motor	5/34, 5/35	– Surge Suppressors for Contactor Coils (A... series)	4/15
Short Circuit Protection - Coordination with Protection Devices	5/15, 5/40, 7/12	– Surge Suppressors for Contactor Coils (EK... series)	4/41
Shrouds for Main Terminals (A 145 ... AF 750 Contactors)	4/20	– Interface Relays for PLC's Outputs	4/19
Shrouds for Main Terminals (EK... Contactors)	4/42	– Connecting Terminal Blocks (Increasing capacity)	4/23
Shrouds for Main Terminals (O/L Relays)	5/23, 5/25	Technical Data for Mini Contactors	6/10, 6/11
Shunt release for Manual Motor Starters	5/5, 5/7, 5/9	Technical Data for Manual Motor Starters	5/10 ... 5/14
Signal Contacts for Manual Motor Starters	5/5, 5/7, 5/9	Technical Data for Overload Relays	
Slip-Ring Motors (Contactor Selection)	2/52, 2/53	– Electronic O/L Relays	5/36 ... 5/38
Specifications (General data)	7/2	– Thermal O/L Relays	5/27 ... 5/35
Specifications (Questionnaire for product specifications)	2/92	Temporary Duty (Temporary or intermittent duty)	2/91
Standards: National, European and International Standards	7/3	Terminal Accessories: see "Connection Accessories"	–
Starting: see "Applications" (Contactor selection)	–	Terminal Marking and Positioning	8/1 ... 8/17
Strips: see "Connection Accessories"	–	Terminal support for Manual Motor Starters	5/7
Surge Suppressors for Contactor Coils (A... Series)	4/14, 4/15	Terms and Technical Definitions	7/6, 7/7
Surge Suppressors for Contactor Coils (EK... Series)	4/40, 4/41	Test Certifying Organizations	7/3
Surge Suppressors for Mini Contactor Coils	6/8	Thermal O/L relays	
T		– for A 9 ... A 110 Contactors	2/9
Tables for Coil Voltage Codes	0/1	– for A 145 ... AF 750 Contactors	2/13
Tables for Coordination with the Short-Circuit Protection Devices	5/15, 5/40, 7/12	– for Contactor Range	5/19... 5/21
Table of Motor Nominal Powers and Currents	0/0	– for Protection of the ATEX Motors	5/34, 5/35
Technical data for A... Series Contactors		Tightening Torques: see Technical Data "Connecting characteristics"	–
– General Technical Data	2/66, 2/67	Timer: TE 5S Electronic Timer for Star-Delta Starters	4/6, 4/7
– Main Pole - Utilization Characteristics acc. to IEC	2/64, 2/65	Timer: TP Pneumatic Timer	4/8, 4/9
– Main Pole - Utilization Characteristics acc. to UL / CSA	2/66, 2/67	Tools for Contactor Selection	1/10, 1/11
– Magnet System Characteristics	2/68 ... 2/70	Transformer Switching - Contactor Selection	2/55
– Built-in Auxiliary Contacts	2/71	Tripping Curves for Electronic O/L Relays	5/38
– Mounting Characteristics	2/72, 2/73	Tripping Curves for T 7 Thermal O/L Relays	6/14
– Conditions for Use	2/72, 2/73	Tripping Curves for TA... Thermal O/L Relays	5/33
– Mounting Positions	2/72, 2/73	Types of Devices: see "Ordering Details"	–
– Connecting Characteristics	2/74, 2/75	U	
Technical data for EK... Series Contactors		UL: see "Specifications in Canada and the USA"	7/2
– General Technical Data	2/77	Undervoltage release for Manual Motor Starters	5/5, 5/7, 5/9
– Main Pole - Utilization Characteristics acc. to IEC	2/76	Utilization Categories - General Technical Data	7/8, 7/9
– Main Pole - Utilization Characteristics acc. to UL / CSA	2/77	Utilization Categories and Electrical Durability for Contactors	2/81 ... 2/87
– Magnet System Characteristics	2/78	V	
– Mounting Characteristics	2/79	Varistor: see "Surge suppressors"	–
– Conditions for Use	2/79	Voltage for Coil Supply: Order Code Supplement	
– Mounting Positions	2/79	– Contactors and Contactor Relays	0/1
– Connecting Characteristics	2/80	– Mechanical Latching Units	4/12
Technical data for AM... Contactors		– Mini Contactors - Mini Contactor Relays	6/1, 6/7
– Specific Technical Data	2/46	W	
Technical data for EH 1200 Contactors	2/49	Website	1/9
Technical data for GA 75 and GAE 75 Contactors		Weight of Devices and Accessories: see "Ordering Details" pages	–
– Specific Technical Data	2/44	Withstand of Devices (Climatic Conditions)	7/11
Low Voltage Products		Wide Coil Voltage Range: (AF... Contactors)	2/18, 2/21, 2/31

Your partner in Europe



Austria		
Belgium		
Bulgaria		
Croatia		
Czech Republic		
Denmark		
Finland		
France		
Germany		
Greece		
Hungary		
Iceland		
Ireland		
Italy		
Lithuania		
Luxembourg		
Netherlands		
Norway		
Poland		
Portugal		
Romania		
Russia		
Slovenia		
Spain		
Sweden		
Switzerland		
Turkey		
United Kingdom		

Your partner in the Americas



Argentina		
Bolivia		
Brazil		
Canada		
Chili		
Colombia		
Ecuador		
El Salvador		
Mexico		
Peru		
Uruguay		
USA		
Venezuela		

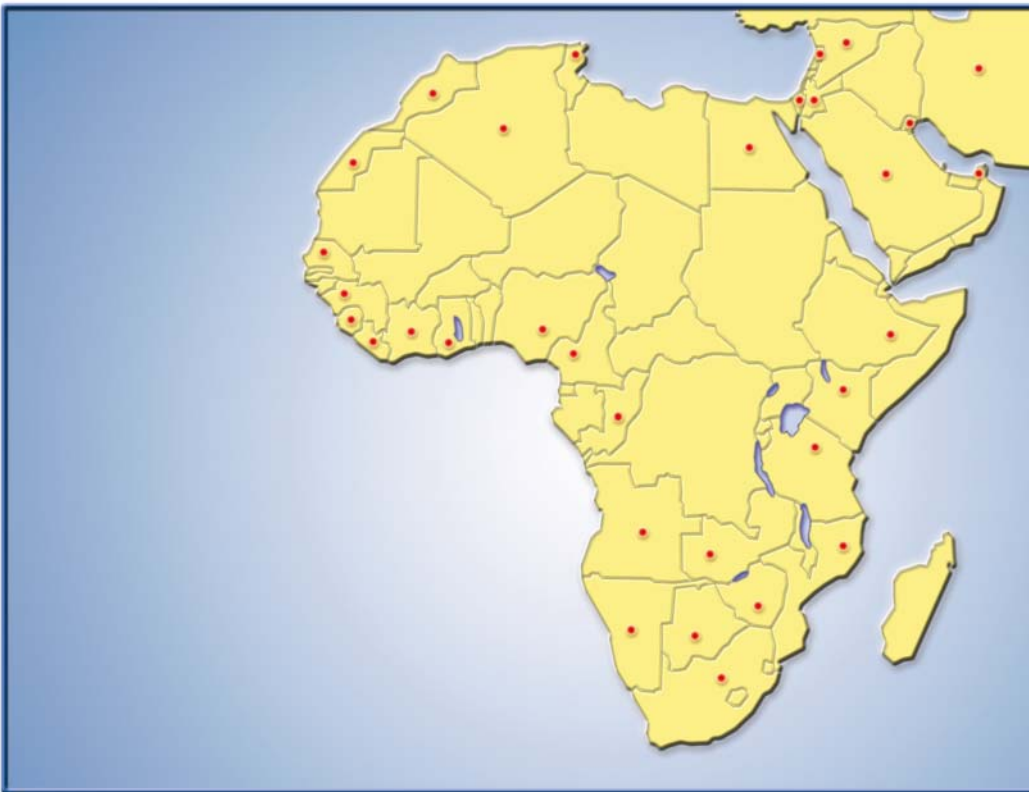
For a complete information,
please consult
the ABB Website.

Your partner in Asia



- Australia
- China
- India
- Indonesia
- Japan
- Malaysia
- Philippines
- Singapore
- South Korea
- Taiwan
- Thailand

Your partner in Middle East and Africa



- Algeria
- Dubai
- Egypt
- Ethiopia
- Iran
- Israel
- Ivory Coast
- Jordan
- Kenya
- Kuwait
- Lebanon
- Morocco
- Nigeria
- Saudi Arabia
- South Africa
- Syria
- Tanzania
- Tunisia
- Zimbabwe

For a complete information,
please consult
the ABB Website.