MINI CONTACTORS

K03C, K07C, K07CG (DC), K07CF, K03M, K07M, K07MG (DC), K07MF, K07CX, K0CGX (DC), K07MX, K07MGX (DC)



- Contactors are used for switching electric motors and other resistive, inductive and capacitive loads
- A wide variety of snap-on auxiliary switch blocks and accessories
- Uniform marking of terminals in accordance with the EN 50005 and EN 50011 European standards
- Quick assembly to a 35 mm wide mounting rail in accordance with EN 60715 or fixing with two screws
- Open and funnel-shaped connection terminals fast and simple connection
- High contact reliability at low voltages
- Possibility of individual marking on a special plate easy identification of a contactor in the circuit
- Two contactor widths: 35 and 45 mm
- Optional operating position
- AC or real DC drive with low consumption
- Possibility of direct connection of the BR6 bimetal relay for protection against overload and in case of phase failure
- Version with all four main contacts (Sp4)
- Degree of protection IP20
- High electrical and mechanical endurance, and high switching capacity
- K07CF and K07MF are contactors for fast-on connection
- K07CX, K07CGX, K07MX and K07MGX are contactors with soldering pins
- Technical data for K07MF and K07MX are identical to K07M
- Technical data for K07MGX are identical to K07MG
- Technical data for K07CX are identical to K07C
- Technical data for K07CGX are identical to K07CG

TECHI	NICAL DATA						MOTOR CONTACTO	ORS			
	Туре					K03M	K07M	K07MG			
	Standards				IEC/EN 60947-5-1, IEC/EN 60947-4-1, UL 508						
	Approvals (K07CX, K07CGX, K	it approvals)			UL, CSA, GOST						
	Climatic class					constant damp heat (IEC 60068-2-78) cyclic damp heat (IEC 60068-2-30)					
	Ambient temperature	ор	ben		°C	-20 +60					
AL		clos	sed		C		-20 +45				
GENERAL	Storage temperature				°C	-30 +80					
	Contact reliability						17 V; ≥ 50 mA				
Ŭ	Mechanical endurance				op. c.		107				
	Power dissipation per pole			W		1.2					
	Max. mechanical operating freq			op. c./h		3000					
	Max. electrical operating frequency				op. c./h	600/600/1200/1200					
	AC-1/AC-3/AC-15/DC-13					0.10	0.00				
	Weight				kg	0.16	0.18	0.22			
	Rated insulation voltage		Ui	V	690						
	Thermal current		l _{th}	A	20						
	Rated frequency	230 V	f	Hz	50/60						
	Rated power			7.5							
⊨		400 V	Pe	kW	13						
CC	AC-1				500 V	17.5					
MAIN CIRCUIT			690 V			22					
Z	Rated operational current	up to 50°C	open	l _e	A		20				
MA	AC-1	up to 60°C	open			16					
	Rated motor power	single-phase	230 V	-		0.75	1.1	1.1			
		three-phase	230 V	Pe		1.5	3	3			
	AC-3		400 V		kW	2.2	5.5	5.5			
			500 V			3	5.5	5.5			
			690 V			4	5.5	5.5			

MINI CONTACTORS

K03C, K07C, K07CG (DC), K07CF, K03M, K07M, K07MG (DC), K07MF, K07CX, K0CGX (DC), K07MX, K07MGX (DC)

						(
TECH	INICAL DATA						MOTOR CONT	ACTORS	
	Туре					K03M	K07M	K07MG	
	Rated operational motor current	single-phase	230 V			8	10	10	
			230 V]		6.3	11.5	11.5	
			400 V	l _e	А	5	11.3	11.3	
	AC-3	three-phase	500 V			5.3	9	9	
			690 V			4.9	6.5	6.5	
	Rated motor power acc. to UL		115 V	1		1/3	1/2	1/2	
F		single-phase	230 V			3/4	11/2	1½	
CU			230 V	Pe	HP	2	3	3	
Ë		three-phase	460 V			3	5	5	
Z		·	575 V			5	7 1/2	7 1/2	
MAIN CIRCUIT									
2	Electrical endurance of contacts AC-	-1 / AC-3			op. c.		0.2 x 10 ⁶ / diagram 2		
	Max. back-up fuse for short-circuit p Coordination type 2	rotection gL		l _V	А		25		
	T		rigid		2		0.75 2.5		
	Terminal capacity	flexible	S	mm ²		0.5 2.5			
	Screw		1			M3.5			
	Screw head					PZ2			
	Tightening torque				Nm		1.2		
	Rated insulation voltage			Ui	V		690		
	Thermal current		/ _{th}	А	20				
	Rated operational current	230 V			6				
		400 V				4			
	AC-15	500 V	l _e	A	2				
\succ		690 V				1			
AR	Rated operational current	24 V				4			
SC E	DC-13	110 V	l _e	А		0.25			
AUXILIARY CIRCUIT	Max. back-up fuse for short-circuit p								
	Coordination type 2		<i>l</i> _V	A	20				
	Terminal capacity	rigid	s	mm ²	0.75 2.5				
			flexible	ļ		0.5 2.5			
	Screw						M3,5		
	Screw head						PZ2		
	Tightening torque				Nm		1.2	1	
			switch-on		VA	39		-	
	Coil consumption	Coil consumption			W	34		3	
		operation	Pc	VA	8.1		-		
				ļ	W		4	3	
\leq			make	NO		10 - 15	10 - 10	25 - 30	
STS				NC	ms	10 - 15	10 - 15	8 - 10	
SY	Make / Break delay		break	NO		6 - 15	5 - 10	7 - 10	
MAGNETIC SYSTEM			DIGAN	NC		6 - 15	6 - 15	10 - 25	
ШZ	Range of control voltage		Uc	%		85 110			
₽GI	Control voltages		Uc	V	6 - 415	6 - 690	6 - 250		
Ź	Terminal capacity		rigid	s	mm ²		0.75 2.5		
	Terminal capacity		flexible	S	111(1)		0.5 2.5		
	Screw						M3.5		
	Screw head		1			PZ2			
	Tightening torque		1	Nm		1.2			

MINI CONTACTORS

K03C, K07C, K07CG (DC), K07CF, K03M, K07M, K07MG (DC), K07MF, K07CX, K0CGX (DC), K07MX, K07MGX (DC)

ECHN	IICAL DATA		1			CONTACTO	R RELA	
	Туре			K03C	K07C	K07C0		
	Standards			IEC/EN 60947-5-1, UL 508				
	Approvals			UL, CSA, GOST				
	Climatic class				constant damp heat acc. to IEC 60068-2-78 cyclic damp heat acc. to IEC 60068-2-30			
RA	Ambient temperature		open		-20 +60			
GENERAL			closed	°C	-20 +45			
С	Storage temperature			°C	-30 +80			
	Mechanical endurance			op. c.		10 ⁷		
	Max. mechanical operating frequency with	no load		op. c./h		3000		
	Max. electrical operating frequency AC-15/	DC-13		op .c /h		1200/1200		
	Weight			kg	0.16	0.18	0.22	
	Rated insulation voltage	Ui	V	690				
	Thermal current	[/] th	A	20				
	Rated operational current 230 V				6			
5	AC-15	400 V				4		
0 M		500 V	l ^l e	A	2			
MAIN CIRCUT		690 V				1		
AN	Rated operational current 24 V				4 0.25			
Ś	DC-13	le le	A					
	Electrical endurance AC-15		op. c.		diagram 1			
	Max. back-up fuse for short-circuit protecti Coordination type 2	l _v	А	20				
				VA	39		-	
		switch-on	_	W	34 8.1 4		3	
	Coil consumption		P _c	VA				
Ę		operation		W			3	
l Ú	Range of control voltage		Uc	%	85 110			
UH D	Control voltages		Uc	V	6 - 415	6 - 690	6 - 25	
MAIN CIRCUIT	rigid					0.75 2.5		
Μ	Terminal capacity	S	mm ²	0.5 2.5				
	Screw					M3.5		
	Screw head					PZ2		
	Tightening torque			Nm		1.2		

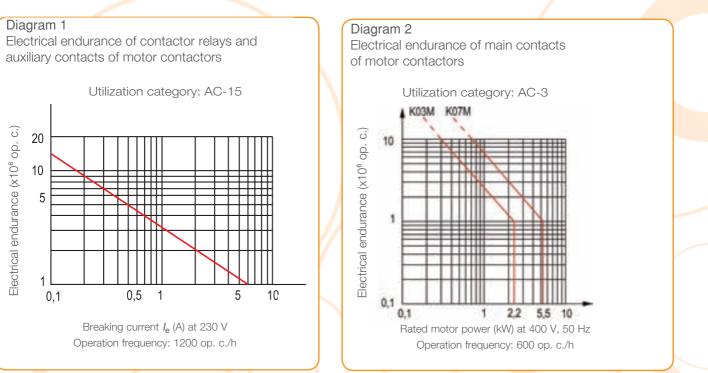
Standard co	ontrol voltage	s and designa	ations (AC)					
V	24	42	48	110/125	220/240	380/415	440	500
50/60 Hz	B7	D7	E7	F7	M7	Q7	R7	S7

Standard co	ontrol voltages	s and designa	ations (DC)					
V	12	24	48	60	72	110	125	220
	SD	BD	ED	ND	SD	FD	GD	MD

MINI CONTACTORS

K03C, K07C, K07CG (DC), K07CF, K03M, K07M, K07MG (DC), K07MF, K07CX, K0CGX (DC), K07MX, K07MGX (DC)

ELECTRICAL ENDURANCE



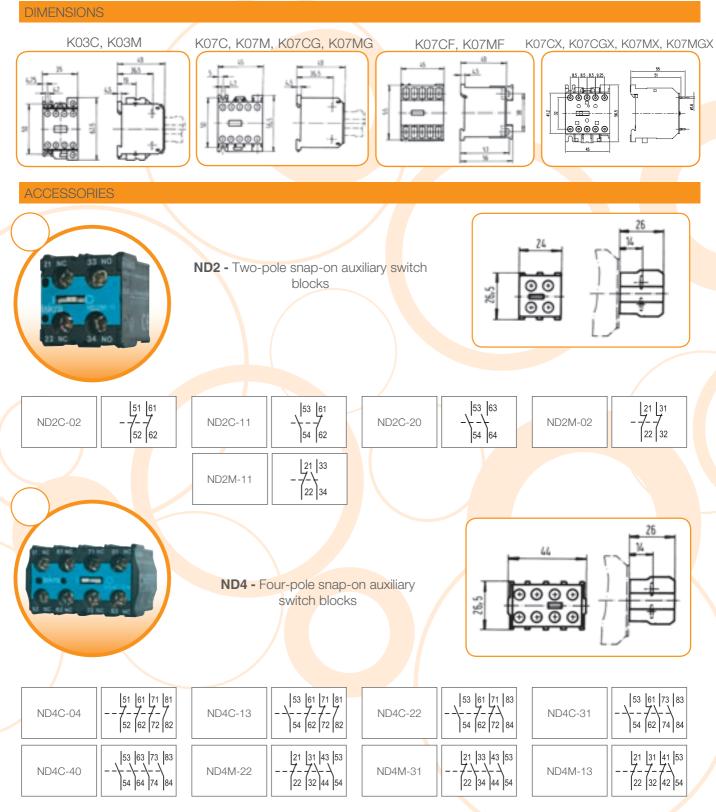
CONTACT ARRANGEMENTS

Туре	Arrangement of contacts and terminal designation
K03C -22 K07C -22 K07CG -22 K07CF -22 K07CF -22 K07CX -22 K07CGX -22	$ \begin{bmatrix} A1 & 13 & 21 & 31 & 43 \\ \hline$
K03C -31 K07C -31 K07CG -31 K07CF -31 K07CX -31 K07CGX -31	$ \begin{bmatrix} A1 & 13 & 21 & 33 & 43 \\ \hline & - & - & - & - \\ \hline A2 & 14 & 22 & 34 & 44 \\ \end{bmatrix} $
K03C -40 K07C -40 K07CG -40 K07CF -40 K07CX -40 K07CGX -40	A1 13 23 33 43 A2 14 24 34 44

MOTOR CON	ITACTORS
Туре	Arrangement of contacts and terminal designation
K03M -01 K07M -01 K07MG -01 K07MF -01 K07MX -01 K07MGX -01	$ \begin{vmatrix} A1 & 1 & 3 & 5 & 21 \\ \hline - & - & - & - & - \\ \hline A2 & 2 & 4 & 6 & 22 \end{vmatrix} $
K03M -10 K07M -10 K07MG -10 K07MF -10 K07MX -10 K07MGX -10	$ \begin{bmatrix} A1 & 1 & 3 & 5 & 13 \\ \hline$
K03M -10 Sp4 K07M -10 Sp4 K07MG -10 Sp4	an n 3 8 ,2
K07M -22 Sp4 K07MG -22 Sp4	A1 1 R3 R5 7
K07M -04 Sp4 K07MG -04 Sp4	51 61 83 85 83
K07M -01 Sp4 K07MG -01 Sp4	41 * 3 5 R+ □

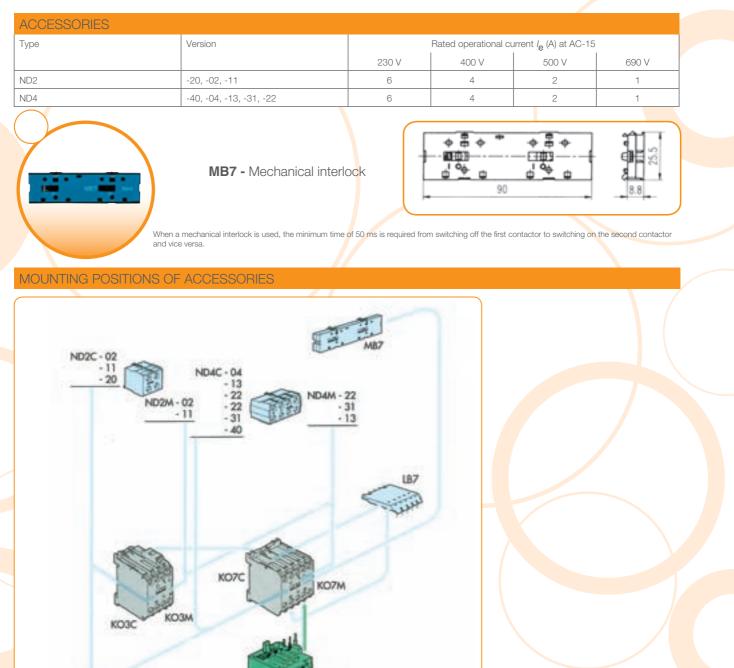
MINI CONTACTORS

K03C, K07C, K07CG (DC), K07CF, K03M, K07M, K07MG (DC), K07MF, K07CX, K0CGX(DC), K07MX, K07MGX(DC)



MINI CONTACTORS

K03C, K07C, K07CG (DC), K07CF, K03M, K07M, K07MG (DC), K07MF, K07CX, K0CGX (DC), K07MX, K07MGX (DC)



ORDERING DATA

The type designation and control voltage are stated when ordering the contactors. When ordering snap-on auxiliary switch blocks, only the type is stated. Example: ND2M-22

BR6

