



EKMS2-32



EKMS2-32P



EKMS2-32R



EKMS2-80



EKMS2-80P

## Technical Data

Description	Electric value	AC690V, 32A, 80A
	Standard	IEC/EN 60947-2, IEC60947-4-1

### Type Designation

EKM S 2- □ □ □ □

- Code of Rated current
- Frame size rated current (A)
- Design sequence Number
- AC motor starter
- Company code

Operating Condition	Temperature:	-5°C~+40°C, average temperature in 24 hours not exceed +35°C
	Altitude	not exceed 2000m
	Air conditions	At mounting site, relative humidity not exceed 50% at the max temperature of +40°C, higher relative humidity is allowable under lower temperature, for example, RH could be 90% at +20°C
	Release grade	Grade III
	Eelease grade	10A(EKMS2-32) 10A(EKMS2-80)
	Rated operational system	Continuous operational system
	Mounting conditions	The inclination between the mounting plane and the vertical plane shall not exceed 5° The product shall be installed and operated at a place without obvious shake, Impact and vibration

### Over-load Protection Properties

Protection Property	Series No.	Multiple of setting current	Initial status	Time	Expected results	Ambient temperature
2	1.20	Heat status (right after test.1)	$t < 2min$	Tripping	+20°C±2°C	
3	1.50	Heat status (right after test.1)	Tripping class 10A $t < 2min$ 10 $t < 4min$	Tripping	+20°C±2°C	
4	7.20	Cold status	Tripping class 10A $2s < t \leq 10s$ 10 $4s < t \leq 10s$	Tripping	+20°C±2°C	

### Phase failure protection properties

Protection Property	Series No.	Multiple of setting current		Initial status	Time	Expected results	Ambient temperature
		Any 2 phase	The other phase				
1	1.0	1.0	0.9	Cold status	$t \geq 2h$	Non-tripping	+20°C±2°C
2	1.15	1.15	0	Heat status (right after test.1)	$t < 2h$	Tripping	+20°C±2°C

Temperature compensation properties

Protection Property	Series No.	Multiple of setting current	Initial status	Time	Expected results	Ambient temperature
	1	1.0	Cold status	$t \geq 2h$	Non-tripping	$+40^{\circ}C \pm 2^{\circ}C$
	2	1.2	Heat status (right after test.1)	$t < 2min$	Tripping	$+40^{\circ}C \pm 2^{\circ}C$
	3	1.05	Cold status	$t \geq 2h$	Non-tripping	$-5^{\circ}C \pm 2^{\circ}C$
	4	1.3	Heat status (right after test.1)	$t < 2min$	Tripping	$-5^{\circ}C \pm 2^{\circ}C$

Model of overload relay	Code	Rated current(A)	Rated ultimate short-circuit breaking capacity lcu(kA)			Rated service short-circuit breaking capacity lcs(kA)			Standard rated power of three-phase motor (kW)		
			230/240V	400/415V	660/690V	230/240V	400/415V	660/690V	230/240V	400/415V	660/690V
EKMS2-32	3201	0.1~0.16	100	100	100	100	100	100	-	-	-
	3202	0.16~0.25	100	100	100	100	100	100	-	-	-
	3203	0.25~0.4	100	100	100	100	100	100	-	-	-
	3204	0.4~0.63	100	100	100	100	100	100	-	-	0.37
	3205	0.63~1	100	100	100	100	100	100	-	-	0.55
	3206	1~1.6	100	100	100	100	100	100	-	-	1.1
	3207	1.6~2.5	100	100	3	100	100	2.25	0.37	0.75	1.5
	3208	2.5~4	100	100	3	100	100	2.25	0.75	1.5	3
	3210	4~6.3	100	100	3	100	100	2.25	1.1	2.2	4
	3214	6~10	100	100	3	100	100	2.25	2.2	4	7.5
	3216	9~14	100	15	3	100	7.5	2.25	3	5.5	9
	3220	13~18	100	15	3	100	7.5	2.25	4	9	11
	3221	17~23	50	15	3	50	6	2.25	5.5	11	15
3222	20~25	50	15	3	50	6	2.25	5.5	11	18.5	
3232	24~32	50	15	3	50	6	2.25	7.5	12.5	22	
EKMS2-80	8025	16~25	-	15	-	-	7.5	-	5.5	11	-
	8040	25~40	-	15	-	-	7.5	-	11	22	-
	8063	40~63	-	15	-	-	7.5	-	15	33	-
	8080	56~80	-	15	-	-	7.5	-	22	45	-

## Accessories

### Under-Voltage Release



Rated insulation voltage Ui(V)	Voltage range of operation	Model	Specification
690	35%~70%Ue	EKMS2-UV110	110~115V 50Hz
690	35%~70%Ue	EKMS2-UV127	127V 60Hz
690	35%~70%Ue	EKMS2-UV220	220~240V 50Hz
690	35%~70%Ue	EKMS2-UV380	380~400V 50Hz
690	35%~70%Ue	EKMS2-UV440	440V 60Hz

### Shunt Release



Rated insulation voltage Ui(V)	Voltage range of operation	Model	Specification
690	70%~110%Ue	EKMS2-SH110	110~115V 50Hz
690	70%~110%Ue	EKMS2-SH127	127V 60Hz
690	70%~110%Ue	EKMS2-SH220	220~240V 50Hz
690	70%~110%Ue	EKMS2-SH380	380~400V 50Hz
690	70%~110%Ue	EKMS2-SH440	440V 60Hz

### Instantaneous auxiliary contact



Rated insulation voltage Ui(V)	Conventional heating current Ith(A)	Model	Configuration
250	2.5	EKMS2-AE20	2N/O
250	2.5	EKMS2-AE11	1N/O+1N/C



Rated insulation voltage $U_i$ (V)	Conventional heating current $I_{th}$ (A)	Model	Configuration	Starter matched
690	6	EKMS2-AN20	2N/O	EKMS2-32
690	6	EKMS2-AN11	1N/O+1N/C	
690	6	EKMS2-AU20	2N/O	EKMS2-80
690	6	EKMS2-AU11	1N/O+1N/C	

### Fault signal contact and instantaneous auxiliary contact



Rated insulation voltage $U_i$ (V)	Conventional heating current $I_{th}$ (A)		Model	Configuration
	Instantaneous auxiliary contact	Fault signal contact		
690	6	2.5	EKMS2-FA0110	1N/C+1N/O
690	6	2.5	EKMS2-FA0101	1N/C+1N/C
690	6	2.5	EKMS2-FA1010	1N/O+1N/O
690	6	2.5	EKMS2-FA1001	1N/O+1N/C

### Application class, rated operational voltage and tated operational current of instantaneous auxiliary contact

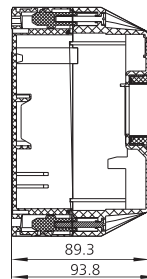
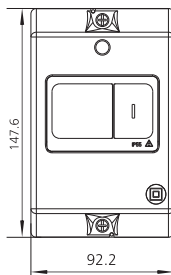
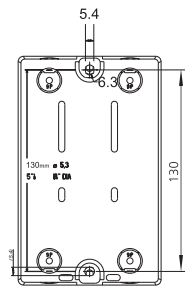
Utilization category	AC-15				DC-13		
	Rated operational voltage $U_e$ (V)	24	48	110/127	230/240	24	48
Rated operational current $I_e$ (A)	2	1.25	1	0.5	1	0.3	0.15
Normal operational power $P$ (W)	48	60	127	120	24	15	9



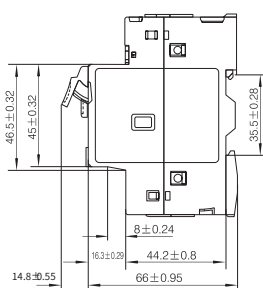
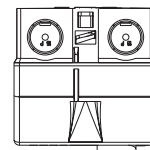
EKMS2-MC Installation box without pushbutton

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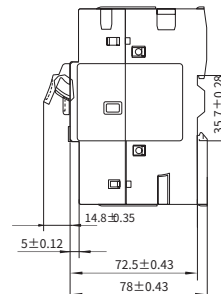
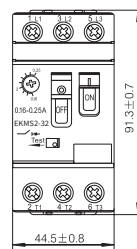
## Overall and Installation Dimension(mm)



EKMS2-MC



EKMS2-32



EKMS2-80

