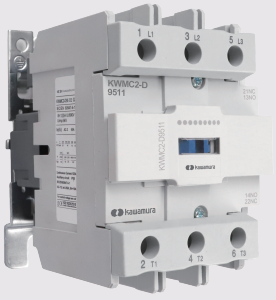
KWMC2-D Series AC Contactor

Standard	IEC/EN 60947-4-1
Electric ratings	9-95A
Rated operating voltage Ue(V)	220/380/400/415
Rated insulation voltage Ui(V)	690
Operation range	Pick-up voltage (85%~110%)Us
	Drop-out voltage (20%~75%)Us
Rated impluse withstand voltage Uimp(kV)	6
Rated frequency(Hz)	50/60
Utilization category	AC-3,AC-4
Degree of protection	IP20
Ambient air temperature(℃)	-5 to+40,max.95%humidity
Storage temperature(℃)	-40~+75
Maximum operating altitude(meters)	≤2000
Flame resistance	V1
Certification	CE CB

KWMC2-D12

KWMC2-D25

KWMC2-D40



KWMC2-D95

KWMC2-D Series AC Contactor

Type			KWMC2-D									
			09	12	18	25	32	40	50	65	80	95
Number of poles			3	3	3	3	3	3	3	3	3	3
Rated operational current(A)	380V	In AC-3	9	12	18	25	32	40	50	65	80	95
		In AC-4	3.5	5	7.7	8.5	12	18.5	24	28	37	44
	440V	In AC-1	20	25	32	40	50	60	80	80	110	125
	660V	In AC-3	6.6	8.9	12	18	21	34	39	42	49	55
		In AC-4	1.5	2	3.8	4.4	7.5	9	12	14	17.3	21.3
Rated conventional thermal current Ith(A)			20	25	32	40	50	60	80	80	95	95
Rated making capacity(A)	400V		10 x Ie AC-3 or 12 x Ie AC-4									
Rated breaking capacity(A)	400V		8 x Ie AC-3 or 10x Ie AC-4									
Rated operational power in category AC-3(kW)	220/230/240V		2.2	3	4	5.5	7.5	11	15	18.5	22	25
	380/400V		4	5.5	7.5	11	15	18.5	22	30	37	45
	415/440V		4	5.5	9	11	15	22	25	37	45	45
	660/690V		5.5	7.5	10	15	18.5	30	33	37	45	45
Average impedance per pole(mΩ)			2.5	2.5	2.5	2	2	1.5	1.5	1.5	0.8	0.8

Add-on auxiliary contact blocks	
Front	KWA1-DN
Side	KWA8-DN
Front time delay	KWA2-DT/KWA3-DR
Front dust and damp protected	YES

Associated thermal overload relays		KWTH2-D13				KWTH2-D23	KWTH2-D33				
Operation cycles (times/hour)	Electrical AC-3	1200	1200	1200	1200	600	600	600	600	600	600
	Electrical AC-4	300	300	300	300	300	300	300	300	300	300
	Mechanical	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600
Elechanical life (X 10^3 times)	AC-3	1000	1000	1000	1000	800	800	600	600	600	600
	AC-4	200	200	200	200	200	150	150	150	100	100
Mechanical life(X 10^3 times)		10000	10000	10000	10000	8000	8000	8000	8000	6000	6000
Matching fuse model		RT16-20	RT16-20	RT16-32	RT16-40	RT16-50	RT16-63	RT16-80	RT16-80	RT16-100	RT16-125
Tightening torque(N.m) Connection		1.2	1.2	1.7	2.0	2.5	5	5	5	9	9

KWMC2-D Series AC Contactor

Selection and ordering data

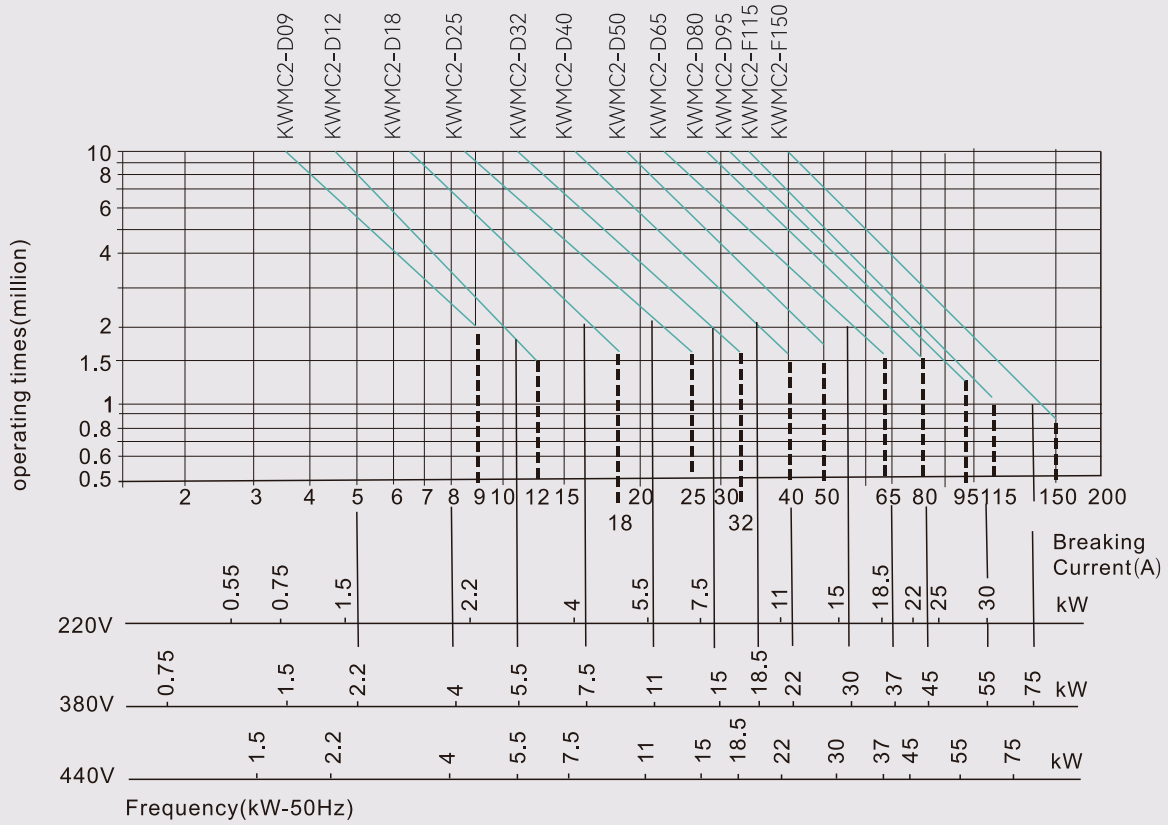
Rated Operational current in category AC-3 400V(A)	Number of poles	Instantaneous auxiliary contacts	Standard control circuit voltages (VAC)	Rated frequency (Hz)	Auxiliary contacts	Model number
9	3 -	1 -	380/400	50/60	1NO	KWMC2-D0910
	3 -	- 1			1NC	KWMC2-D0901
12	3 -	1 -	380/400	50/60	1NO	KWMC2-D1210
	3 -	- 1			1NC	KWMC2-D1201
18	3 -	1 -	380/400	50/60	1NO	KWMC2-D1810
	3 -	- 1			1NC	KWMC2-D1801
25	3 -	1 -	380/400	50/60	1NO	KWMC2-D2510
	3 -	- 1			1NC	KWMC2-D2501
32	3 -	1 -	380/400	50/60	1NO	KWMC2-D3210
	3 -	- 1			1NC	KWMC2-D3201
40	3 -	1 1	380/400	50/60	1NO+1NC	KWMC2-D4011
50	3 -	1 1	380/400	50/60	1NO+1NC	KWMC2-D5011
65	3 -	1 1	380/400	50/60	1NO+1NC	KWMC2-D6511
80	3 -	1 1	380/400	50/60	1NO+1NC	KWMC2-D8011
95	3 -	1 1	380/400	50/60	1NO+1NC	KWMC2-D9511

Refer to other coil voltage listed as followings

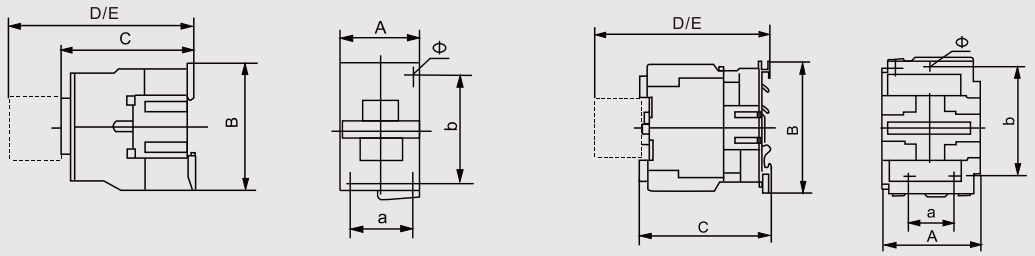
Coil voltage(V)	24	36	48	110	127	220	230	240	380/400	415	440	480	500	600	660
50Hz	B5	C5	E5	F5	G5	M5	P5	U5	Q5	N5	R5	T5	S5	-	Y5
60Hz	B6	-	E6	F6	G6	M6	P6	U6	Q6	N6	R6	T6	-	S6	-
50/60Hz	B7	C7	E7	F7	G7	M7	P7	U7	Q7	N7	R7	T7	-	-	-

For technical data, see technical specifications for type KWMC2-D Series

Electrical life curve for AC contactor KWMC2-D



Overall Dimensions

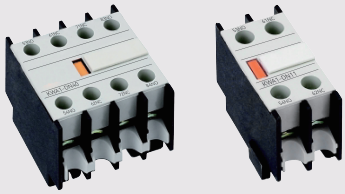
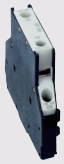


KWMC2-D09~32 KWMC2-D40~95

	Type	A max	B max	C max	D max	E max	a	b	φ
3P	KWMC2-D09~12	47	76	82	113	133	34/35	48/61	2-/φ4.5
	KWMC2-D18	47	76	87	118	138	34/35	48/61	2-/φ4.5
	KWMC2-D25	57	86	95	126	146	40	48	2-/φ4.5
	KWMC2-D32	57	86	100	131	151	40	48	2-/φ4.5
	KWMC2-D40~65	75	127	115	145	165	40	106/116	3-/φ6.5
	KWMC2-D80~95	87	127	124	156	176	40	106/116	3-/φ6.5

Dmax (D): Overall depth of contactor body fitted with top-mounted auxiliary contact block
Emax (E): Overall depth of contactor body fitted with time relay

Accessories

Auxiliary Contact Block	Model	Number of contacts	Mounting Type	Auxiliary Contacts	
	KWA1-DN10	2	Front	1	0
	KWA1-DN01	2		0	1
	KWA1-DN11	2		1	1
	KWA1-DN20	2		2	0
	KWA1-DN02	2		0	2
	KWA1-DN22	4		2	2
	KWA1-DN13	4		1	3
	KWA1-DN40	4		4	0
	KWA1-DN04	4		0	4
	KWA1-DN31	4		3	1
	KWA8-DN11	2	Lateral	1	1
	KWA8-DN20	2		2	0

Timer delay block	Model	Number of contacts	Range	Time-delay type
	KWA2-DT0 KWA2-DT2 KWA2-DT4	1NO+1NC	0.1-3s 0.1-30s 10-180s	Making time- delay
	KWA3-DR0 KWA3-DR2 KWA3-DR4		0.1-3s 0.1-30s 10-180s	Breaking time- delay

Mechanical interlock	Model	Matched AC Contactor
	KWML-0932 KWML-4095	KWMC2-D09 to KWMC2-D32 KWMC2-D40 to KWMC2-D95

Spare coils	Model	Voltage (VAC)	Rated frequency(Hz)	Matched AC Contactor
	KWX1-D2 KWX1-D4 KWX1-D6	24(B7) 36(C7) 48(E7) 110(F7) 127(G7) 220(M7) 230(P7) 240(U7) 380/400(Q7) 415(N7) 440(R7) 480(T7)	50/60Hz	KWMC2-D 09~95