

KDNE WITH MCE/C

STANDARDISED CENTRIFUGAL PUMPS ON SKID WITH INVERTER

MCE/C
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HEATING, AIR-CONDITIONING AND INDUSTRIAL APPLICATION



Standardised centrifugal pumps on skid with elastic coupling, electronics designed for a wide range of applications such as:

- Circulation of hot water for heating.
- Circulation of cold water for air conditioning.
- Circulation of cold water for cooling.

Highly versatile pumps thanks to the use of the DAB MCE/C inverter, to guarantee performance able to automatically adapt to the various system requirements, while maintaining constant differential pressure.

Spiral single-stage body in cast iron according to DIN-EN 733 (ex DIN 24255), cast iron seal cover and motor support, flanges according to DIN 2533 (DIN 2532 for DN 200). Cast iron impeller, sealed and dynamically balanced with axial thrust compensation via balancing holes, operating (on request) on interchangeable wear rings. Pump shaft in stainless steel mounted on two generously sized ball bearings, permanently lubricated and housed in a special chamber inside the support.

Standard seal: standardised mechanical seal according to DIN 24960 in carbon/silicon carbide with O-rings in EPDM. On request, packing seals are available, with hydraulic lubrication ring and gland in two easily removable parts.

Sealed, asynchronous motor cooled by external ventilation; 2-pole or 4-pole. Rotor mounted on generously sized ball bearings to ensure silent and durable operation. Electrical protection: according to standards transposed into the ELECTROMAGNETIC COMPATIBILITY DIRECTIVE EEC 89/336 and subsequent amendments, LOW VOLTAGE DIRECTIVE EEC 73/23 and subsequent amendments and standards CEI 2-3.

Construction design: B3

Speed of rotation: 1450 - 2900 1/min.

Operating range: from 1 a 440 m³/h with head up to 70 meters

Liquid temp. range: from -10°C to +140°C.

Pumped liquid: clean, free from solid or abrasive substances, not viscous, not aggressive, not crystallised and chemically neutral, characteristics similar to water.

Max. ambient temperature: +40°C

Maximum operating pressure: 16 bar - 1600 kPa (per il DN 200 max 10 bar).

Protection rating: IP 55

Thermal category: F

Flanging:

PN 16 DIN 2533

PN 10 DIN 2532 per DN 200

Installation: fixed horizontally.

Special versions on request

ACCESSORIES

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KDNE 4 POLES WITH MCE/C - FOR CIRCULATING SYSTEM

CAST IRON IMPELLER

MODEL	FLANGE DIMENS. (mm)		VOLTAGE 50/60 Hz - 1x230 ~ V				VOLTAGE 50 Hz - 3x400 ~ V					
	DNA	DNM	CODE	MODEL MCE	P2 NOMINAL		WEIGHT (Kg)	CODE	MODEL MCE	P2 NOMINAL		WEIGHT (Kg)
					KW	HP				KW	HP	
KDNE 32-125.1/140	50	32	60142983	MCE11/C	0,55	0,75	87					
KDNE 32-125/142	50	32	60142992	MCE11/C	0,75	1	88					
KDNE 32-160.1/177	50	32	60143229	MCE11/C	0,75	1	95					
KDNE 32-160/177	50	32	60143010	MCE11/C	1,1	1,5	97					
KDNE 32-200.1/207	50	32	60143232	MCE11/C	1,1	1,5	110					
KDNE 32-200/200	50	32	60143027	MCE11/C	1,1	1,5	105					
KDNE 32-200/219	50	32	60143029	MCE22/C	2,2	3	106					
KDNE 40-125/142	65	40	60143044	MCE11/C	1,1	1,5	90					
KDNE 40-160/161	65	40	60143053	MCE11/C	1,1	1,5	95					
KDNE 40-160/177	65	40	60143054	MCE15/C	1,5	2	105					
KDNE 40-200/180	65	40	60143067	MCE11/C	1,1	1,5	105					
KDNE 40-200/200	65	40	60143068	MCE15/C	1,5	2	109					
KDNE 40-200/219	65	40	60143069	MCE22/C	2,2	3	115					
KDNE 40-250/230	65	40	60143078	MCE22/C	2,2	3	133					
KDNE 40-250/240	65	40						60143079	MCE30/C	3	4	158
KDNE 40-250/260	65	40						60143080	MCE55/C	4	5,5	209

KDNE WITH MCE/C

STANDARDISED CENTRIFUGAL PUMPS ON SKID WITH INVERTER

KDNE 4 POLES WITH MCE/C - FOR CIRCULATING SYSTEM

CAST IRON IMPELLER

MODEL	FLANGE DIMENS. (mm)		VOLTAGE 50/60 Hz - 1x230 ~ V				VOLTAGE 50 Hz - 3x400 ~ V				
	DNA	DNM	CODE	MODEL MCE	P2 NOMINAL		CODE	MODEL MCE	P2 NOMINAL		WEIGHT (Kg)
					kW	HP			kW	HP	
KDNE 50-125/139	65	50	60143087	MCE11/C	1,1	1,5	97				
KDNE 50-125/144	65	50	60143088	MCE15/C	1,5	2	105				
KDNE 50-160/137	65	50	60143096	MCE11/C	1,1	1,5	104				
KDNE 50-160/153	65	50	60143097	MCE15/C	1,5	2	107				
KDNE 50-160/169	65	50	60143098	MCE22/C	2,2	3	111				
KDNE 50-160/177	65	50					60143099	MCE30/C	3	4	119
KDNE 50-200/170	65	50	60143112	MCE15/C	1,5	2	118				
KDNE 50-200/190	65	50	60143113	MCE22/C	2,2	3	127				
KDNE 50-200/210	65	50					60143114	MCE30/C	3	4	131
KDNE 50-200/219	65	50					60143115	MCE55/C	4	5,5	131
KDNE 50-250/220	65	50					60143123	MCE30/C	3	4	147
KDNE 50-250/263	65	50					60143125	MCE55/C	5,5	7,5	182
KDNE 65-125/130	80	65	60143138	MCE11/C	1,1	1,5	104				
KDNE 65-125/144	80	65	60143140	MCE15/C	1,5	2	107				
KDNE 65-160/137	80	65	60143148	MCE11/C	1,1	1,5	107				
KDNE 65-160/153	80	65	60143149	MCE15/C	1,5	2	118				
KDNE 65-160/169	80	65	60143150	MCE22/C	2,2	3	118				
KDNE 65-160/177	80	65					60143151	MCE30/C	3	4	157
KDNE 65-200/180	80	65	60143159	MCE22/C	2,2	3	151				
KDNE 65-200/190	80	65					60143160	MCE30/C	3	4	159
KDNE65-200/219	80	65					60143162	MCE55/C	5,5	7,5	209
KDNE 65-250/240	80	65					60143168	MCE55/C	5,5	7,5	210
KDNE 65-250/263	80	65					60143169	MCE110/C	7,5	10	270
KDNE 65-315/260	80	65					60143172	MCE110/C	7,5	10	305
KDNE 65-315/290	80	65					60143173	MCE110/C	11	15	310
KDNE 65-315/320	80	65					60143174	MCE150/C	15	20	310
KDNE 80-160/XXX	100	80									
KDNE 80-160/XXX	100	80									
KDNE 80-160/153	100	80									
KDNE 80-160/161	100	80									
KDNE 80-160/177	100	80									
KDNE 80-200/170	100	80									
KDNE 80-200/200	100	80									
KDNE 80-200/222	100	80									
KDNE 80-250/230	100	80									
KDNE 80-250/260	100	80									
KDNE 80-250/270	100	80									
KDNE 80-315/290	100	80									
KDNE 100-200/180	125	100									
KDNE 100-200/200	125	100									
KDNE 100-200/219	125	100									
KDNE 100-250/240	125	100									
KDNE 100-250/260	125	100									
KDNE 100-315/275	125	100									
KDNE 125-250/230	150	125									
KDNE 150-200/218-182	200	150									
KDNE 150-200/224	200	150									
			60143177	MCE22/C	2,2	3	143				
							60143178	MCE30/C	3	4	147
							60143179	MCE55/C	4	5,5	147
							60143237	MCE30/C	3	4	177
							60143188	MCE55/C	5,5	7,5	197
							60143189	MCE110/C	7,5	10	201
							60143194	MCE110/C	7,5	10	232
							60143195	MCE110/C	11	15	271
							60143196	MCE150/C	15	20	290
							60143199	MCE150/C	15	20	403
							60143202	MCE55/C	5,5	7,5	223
							60143203	MCE110/C	7,5	10	222
							60143204	MCE110/C	11	15	320
							60143208	MCE110/C	11	15	305
							60143209	MCE150/C	15	20	313
							60143211	MCE150/C	15	20	313
							60143214	MCE150/C	15	20	429
							60143217	MCE110/C	11	15	467
							60143218	MCE150/C	15	20	467

CENTRIFUGAL PUMPS

KDNE 4 POLES WITH MCE/C - FOR CIRCULATING SYSTEM

CAST IRON IMPELLER

MODEL	FLANGE DIMENS. (mm)		VOLTAGE 50 Hz - 3x400 ~ V				
	DNA	DNM	CODE	MODEL MCE	P2 NOMINAL		WEIGHT (Kg)
					kW	HP	
KDNE 32-125/142/A/BAQE/1/0,75/4 T MCE30/C	65	50	60147503	MCE30/C			
KDNE 32-160.1/177/A/BAQE/1/0.75/4 T MCE30/C	65	50	60147438	MCE30/C			
KDNE 32-160/177/A/BAQE/1/1,1/4 T MCE30/C	65	50	60147439	MCE30/C			
KDNE 32-200.1/207/A/BAQE/1/1.1/4 T MCE30/C	65	50	60147441	MCE30/C			
KDNE 32-200/200/A/BAQE/1/1,1/4 T MCE30/C	65	50	60147442	MCE30/C	3	4	119
KDNE 32-200/219/A/BAQE/1/2,2/4 T MCE30/C	65	50	60147448	MCE30/C			
KDNE 40-125/142/A/BAQE/1/1,1/4 T MCE30/C	65	50	60147454	MCE30/C			
KDNE 40-160/161/A/BAQE/1/1,1/4 T MCE30/C	65	50	60147457	MCE30/C	3	4	131
KDNE 40-160/177/A/BAQE/1/1,5/4 T MCE30/C	65	50	60147458	MCE30/C	4	5,5	131
KDNE 40-200/180/A/BAQE/1/1,1/4 T MCE30/C	65	50	60147459	MCE30/C	3	4	147
KDNE 40-200/200/A/BAQE/1/1,5/4 T MCE30/C	65	50	60147461	MCE30/C	5,5	7,5	182
KDNE 40-200/219/A/BAQE/1/2,2/4 T MCE30/C	80	65	60147463	MCE30/C			
KDNE 40-250/230/A/BAQE/1/2,2/4 T MCE30/C	80	65	60147464	MCE30/C			
KDNE 50-125/139/A/BAQE/1/1,1/4 T MCE30/C	80	65	60147465	MCE30/C			
KDNE 50-125/144/A/BAQE/1/1,5/4 T MCE30/C	80	65	60147466	MCE30/C			
KDNE 50-160/137/A/BAQE/1/1,1/4 T MCE30/C	80	65	60147467	MCE30/C			
KDNE 50-160/153/A/BAQE/1/1,5/4 T MCE30/C	80	65	60147468	MCE30/C	3	4	157
KDNE 50-160/169/A/BAQE/1/2,2/4 T MCE30/C	80	65	60147469	MCE30/C			
KDNE 50-200/170/A/BAQE/1/1,5/4 T MCE30/C	80	65	60147470	MCE30/C	3	4	159
KDNE 50-200/190/A/BAQE/1/2,2/4 T MCE30/C	80	65	60147471	MCE30/C	5,5	7,5	209
KDNE 65-125/130/A/BAQE/1/1,1/4 T MCE30/C	80	65	60147472	MCE30/C	5,5	7,5	210
KDNE 65-125/144/A/BAQE/1/1,5/4 T MCE30/C	80	65	60147473	MCE30/C	7,5	10	270
KDNE 65-160/137/A/BAQE/1/1,1/4 T MCE30/C	80	65	60147474	MCE30/C	7,5	10	305
KDNE 65-160/153/A/BAQE/1/1,5/4 T MCE30/C	80	65	60147475	MCE30/C	11	15	310
KDNE 65-160/169/A/BAQE/1/2,2/4 T MCE30/C	80	65	60147476	MCE30/C	15	20	310
KDNE 65-200/180/A/BAQE/1/2,2/4 T MCE30/C	100	80	60147477	MCE30/C			
KDNE 80-160/153/A/BAQE/1/2,2/4 T MCE30/C	100	80	60147480	MCE30/C	3	4	147

KDNE WITH MCE/C

STANDARDISED CENTRIFUGAL PUMPS ON SKID WITH INVERTER

KDNE 2 POLES WITH MCE/C - FOR CIRCULATING SYSTEM

CAST IRON IMPELLER

MODEL	FLANGE DIMENS. (mm)		VOLTAGE 50/60 Hz - 1x230 ~ V				VOLTAGE 50 Hz - 3x400 ~ V					
	DNA	DNM	CODE	MODEL MCE	P2 NOMINAL		CODE	MODEL MCE	P2 NOMINAL		WEIGHT (Kg)	
					kW	HP			kW	HP		
KDNE 32-125.1/110	50	32	60142986	MCE15/C	1,5	2	97	60147481	MCE30/C	1,5	2	99,6
KDNE 32-125.1/130	50	32	60142987	MCE22/C	2,2	3	104	60147482	MCE30/C	2,2	3	106,6
KDNE 32-125.1/140	50	32						60142988	MCE30/C	3	4	111
KDNE 32-125/130	50	32						60142997	MCE30/C	3	4	105
KDNE 32-125/142	50	32						60142998	MCE55/C	4	5,5	126
KDNE 32-125/125	50	32	60142996	MCE22/C	2,2	3	97	60147483	MCE30/C	2,2	3	99,6
KDNE 32-160.1/137	50	32	60143001	MCE15/C	1,5	2	98	60147484	MCE30/C	1,5	2	100,6
KDNE 32-160.1/145	50	32	60143002	MCE22/C	2,2	3	106	60147485	MCE30/C	2,2	3	108,6
KDNE 32-160.1/153	50	32						60143003	MCE30/C	3	4	111
KDNE 32-160.1/177	50	32						60143005	MCE55/C	5,5	7,5	145
KDNE 32-160/145	50	32						60143013	MCE30/C	3	4	111
KDNE 32-160/161	50	32						60143017	MCE55/C	5,5	7,5	145
KDNE 32-160/177	50	32						60143018	MCE110/C	7,5	10	152
KDNE 32-200.1/170	50	32						60143234	MCE30/C	3	4	149
KDNE 32-200.1/190	50	32						60143021	MCE55/C	5,5	7,5	152
KDNE 32-200.1/207	50	32						60143022	MCE110/C	7,5	10	179
KDNE 32-200/180	50	32						60143032	MCE55/C	5,5	7,5	152
KDNE 32-200/200	50	32						60143035	MCE110/C	7,5	10	190
KDNE 32-200/210	50	32						60143039	MCE110/C	11	15	250
KDNE 32-200/219	50	32						60143040	MCE150/C	15	20	261
KDNE 40-125/120	65	40						60143047	MCE30/C	3	4	100
KDNE 40-125/142	65	40						60143049	MCE55/C	5,5	7,5	143
KDNE 40-160/145	65	40						60143061	MCE55/C	5,5	7,5	169
KDNE 40-160/161	65	40						60143062	MCE110/C	7,5	10	178
KDNE 40-160/177	65	40						60143063	MCE110/C	11	15	186
KDNE 40-200/180	65	40						60143073	MCE110/C	7,5	10	160
KDNE 40-200/200	65	40						60143074	MCE110/C	11	15	234
KDNE 40-200/219	65	40						60143075	MCE150/C	15	20	244
KDNE 40-250/220	65	40						60143082	MCE150/C	15	20	291
KDNE 50-125/125	65	40						60143091	MCE55/C	5,5	7,5	152
KDNE 50-125/139	65	40						60143092	MCE110/C	7,5	10	156
KDNE 50-125/144	65	50						60143093	MCE110/C	11	15	156
KDNE 50-160/145	65	50						60143102	MCE110/C	7,5	10	190
KDNE 50-160/161	65	50						60143103	MCE110/C	11	15	201
KDNE 50-160/177	65	50						60143104	MCE150/C	15	20	213
KDNE 50-200/180	65	50						60143117	MCE110/C	11	15	199
KDNE 50-200/190	65	50						60143121	MCE150/C	15	20	293
KDNE 65-125/120-110	80	65						60143143	MCE55/C	5,5	7,5	152
KDNE 65-125/130	80	65						60143144	MCE110/C	7,5	10	159
KDNE 65-125/144	80	65						60143145	MCE110/C	11	15	188
KDNE 65-160/137	80	65						60143153	MCE110/C	7,5	10	186
KDNE 65-160/153	80	65						60143154	MCE110/C	11	15	196
KDNE 65-160/169	80	65						60143321	MCE150/C	15	20	233
KDNE 65-200/170	80	65						60143164	MCE150/C	15	20	292
KDNE 80-160/153-136	80	65						60143183	MCE150/C	15	20	311