

NKM-GE / NKP-GE WITH MCE/P

ENBLOC CENTRIFUGAL PUMPS WITH INVERTER

MCE/P
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PRESSURIZATION



Enbloc electric centrifugal pumps with coupling, designed for a wide range of applications such as:

- homes;
- apartment blocks;
- camp sites;
- swimming pools;
- farms;
- well water supply;
- irrigation for greenhouses, gardens, agriculture;
- re-use of rainwater;
- industrial systems.

Highly versatile pumps thanks to the use of the **MCE/P** inverter, to guarantee performance able to automatically adapt to the various system requirements, while maintaining constant pressure. Spiral single-stage body in cast iron according to DIN-EN 733 (ex DIN 24255), cast iron support, flanges according to DIN 2533 and DIN 2532 for DN 200. Cast iron impeller, sealed and dynamically balanced with compensation of the axial thrust via balancing holes, operating (on request) on interchangeable wear rings. Pump shaft in AISI 304 stainless steel. Seal: standardised mechanical seal according to DIN 24960 in carbon/silicon carbide with

O-rings in EPDM. Asynchronous, closed motor cooled by external ventilation, construction design B3/B5, 2-pole for NKPGE and 4-pole for NKM-GE.

Rotor mounted on generously sized ball bearings to ensure silent and durable operation.

Speed of rotation: 1450 - 2900 1/min.

Operating range: from 1 a 450 m³/h head up to 72 metri.

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

Pumped liquid: clean, free from solids or abrasive substances, not viscous, not aggressive, not crystallised and chemically neutral and close to the characteristics of water. **Installation:** normally horizontal or vertical provided the motor is always above the pump.

Max. ambient temperature: +40°C

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

Protection rating: IP 55

Insulation class: F

Flanging: PN 16 DIN 2533

Special versions on request:

Pumps for liquids other than water.

Other voltages and/or frequencies.

Inverter modulation with 0-10V signal

ACCESSORIES

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NKM-GE 4 POLES WITH MCE/P - FOR PRESSURIZATION SYSTEM

MODEL	CODE	ELECTRICAL DATA				MODEL MCE	DNA	DNM	WEIGHT Kg
		VOLTAGE 50 Hz	P2 NOMINAL		In A				
			kW	HP					
NKM-GE 40-250/245/A/BAQE/ 2,2 /4 MCE30/P	60147766	3x400 V	2,2	3,0	6,6	MCE30/P	65	40	89
NKM-GE40-250/260/A/BAQE/ 3 /4 MCE30/P	60147767	3x400 V	3,0	4,0	7,9	MCE30/P	65	40	98
NKM-GE50-250/263/A/BAQE/ 4/4 MCE55/P	60147768	3x400 V	4,0	5,5	10,0	MCE55/P	65	50	105
NKM-GE65-250/263/A/BAQE/ 5,5 /4MCE55/P	60147769	3x400 V	5,5	7,5	13,4	MCE55/P	80	65	168
NKM-GE65-315/279/A/BAQE/ 7,5 /4MCE110/P	60147770	3x400 V	7,5	10,0	17,9	MCE110/P	80	65	195
NKM-GE65-315/309/A/BAQE/11/4 MCE150/P	60147771	3x400 V	11,0	15,0	27,2	MCE150/P	80	65	263
NKM-GE80-250/240/A/BAQE/7,5/4MCE110/P	60147772	3x400 V	7,5	10,0	17,9	MCE110/P	100	80	185
NKM-GE80-250/270/A/BAQE/11/4 MCE150/P	60147773	3x400 V	11,0	15,0	27,2	MCE150/P	100	80	237
NKM-GE80-315/305/A/BAQE/15/4 MCE150/P	60147774	3x400 V	15,0	20,0	36,5	MCE150/P	100	80	294
NKM-GE100-250/250/A/BAQE/11/4 MCE150/P	60147775	3x400 V	11,0	15,0	27,2	MCE150/P	125	100	245
NKM-GE100-250/270/A/BAQE/15/4MCE150/P	60147776	3x400 V	15,0	20,0	36,5	MCE150/P	125	100	268
NKM-GE125-250/243/A/BAQE/15 /4 MCE150/P	60147777	3x400 V	15,0	20,0	36,5	MCE150/P	150	125	305

NKP-GE WITH MCE/P

ENBLOC CENTRIFUGAL PUMPS WITH INVERTER

NKP-GE 2 POLES WITH MCE/P - FOR PRESSURIZATION SYSTEM

MODEL	CODE	ELECTRICAL DATA			MODEL MCE	DNA	DNM	WEIGHT Kg	
		VOLTAGE 50 Hz	P2 NOMINAL						In A
			KW	HP					
NKP-GE32-125.1/125/A/BAQE /1.5/2 MCE22/P	60147778	1 x 230V	1,5	2,0	13,42	MCE22/P	50	32	56
NKP-GE 32-125.1/140/A/BAQE/2.2/2 MCE22/P	60147779	1 x 230V	2,2	3,0	18,47	MCE22/P	50	32	58
NKP-GE 32-125/130/A/BAQE / 2.2 /2 MCE22/P	60147780	1 x 230V	2,2	3,0	18,55	MCE22/P	50	32	58
NKP-GE 32-125/142/A/BAQE / 3 /2 MCE30/P	60147781	3 x 400V	3,0	4,0	6,98	MCE30/P	50	32	76
NKP-GE 32-160.1 155/A/BAQE/2.2/2 MCE22/P	60147782	1 x 230V	2,2	3,0	19,42	MCE22/P	50	32	53
NKP-GE 32-160.1 166/A/BAQE /3/2 MCE30/P	60147783	3 x 400V	3,0	4,0	6,68	MCE30/P	50	32	70
NKP-GE 32-160.1 177A/BAQE /4/2 MCE55/P	60168859	3 x 400V	4	5,5	8,5	MCE55/P	50	32	90,6
NKP-GE 32-160/151/A/BAQE/3/2 MCE30/P	60147784	3 x 400V	3,0	4,0	7,09	MCE30/P	50	32	70
NKP-GE 32-160/163/A/BAQE /4/2 MCE55/P	60147785	3 x 400V	4,0	5,5	9,83	MCE55/P	50	32	92
NKP-GE 32-160/177/A/BAQE /5,5/2MCE55/P	60147786	3 x 400V	5,5	7,5	12,68	MCE55/P	50	32	114
NKP-GE 32-200.1 188/A/BAQE/5,5/2 MCE55/P	60147787	3 x 400V	5,5	7,5	9,10	MCE55/P	50	32	92
NKP-GE32-200.1 205/A/BAQE/4/2 MCE55/P	60147788	3 x 400V	4,0	5,5	11,44	MCE55/P	50	32	114
NKP-GE 32-200/190/A/BAQE/5,5 /2MCE55/P	60147789	3 x 400V	5,5	7,5	12,35	MCE55/P	50	32	126
NKP-GE 32-200/210/A/BAQE/7,5 /2MCE110/P	60147790	3 x 400V	7,5	10,0	17,02	MCE110/P	50	32	135
NKP-GE 40-125/120/A/BAQE/2.2/2MCE22/P	60147791	1 x 230V	2,2	3,0	20,62	MCE22/P	65	40	74
NKP-GE 40-125/130/A/BAQE/3/2 MCE30/P	60147792	3 x 400V	3,0	4,0	7,23	MCE30/P	65	40	85
NKP-GE 40-125/139/A/BAQE/4/2 MCE55/P	60147793	3 x 400V	4,0	5,5	9,64	MCE55/P	65	40	107
NKP-GE 40-160/158/A/BAQE/5,5/2MCE55/P	60147794	3 x 400V	5,5	7,5	12,44	MCE55/P	65	40	119
NKP-GE40-160/172/A/BAQE/7,5/2MCE110/P	60147795	3 x 400V	7,5	10,0	17,19	MCE110/P	65	40	127
NKP-GE 40-200/210/A/BAQE/11/2 MCE150/P	60147796	3 x 400V	11,0	15,0	24,87	MCE150/P	65	40	207
NKP-GE40-250/230/A/BAQE/15/2 MCE150/P	60147797	3 x 400V	15,0	20,0	34,64	MCE150/P	65	40	220
NKP-GE 50-125/125/A/BAQE/4/2 MCE55/P	60147798	3 x 400V	4,0	5,5	9,78	MCE55/P	65	50	122
NKP-GE50-125/135/A/BAQE/5,5 /2 MCE55/P	60147799	3 x 400V	5,5	7,5	12,60	MCE55/P	65	50	124
NKP-GE50-125/144/A/BAQE/7,5/2MCE110/P	60147800	3 x 400V	7,5	10,0	16,13	MCE110/P	65	50	133
NKP-GE50-160/153/A/BAQE/7,5/2MCE110/P	60147801	3 x 400V	7,5	10,0	17,38	MCE110/P	65	50	101
NKP-GE50-160/169/A/BAQE/11/2 MCE150/P	60147802	3 x 400V	11,0	15,0	24,03	MCE150/P	65	50	132
NKP-GE 50-200/200/A/BAQE /15/2 MCE150/P	60147803	3 x 400V	15,0	20,0	32,53	MCE150/P	65	50	216
NKP-GE 65-125/127/A/BAQE/5,5/2MCE55/P	60147804	3 x 400V	5,5	7,5	12,81	MCE55/P	80	65	122
NKP-GE65-125/137/A/BAQE/7,5/2MCE110/P	60147805	3 x 400V	7,5	10,0	17,43	MCE110/P	80	65	131
NKP-GE65-160/157/A/BAQE/11/2MCE150/P	60147806	3 x 400V	11,0	15,0	23,44	MCE150/P	80	65	202
NKP-GE65-160/173/A/BAQE/15/2MCE150/P	60147807	3 x 400V	15,0	20,0	33,47	MCE150/P	80	65	212
NKP-GE80-160/147-127/A/BAQE/11/2MCE150/P	60147808	3 x 400V	11,0	15,0	24,09	MCE150/P	100	80	215
NKP-GE 80-160/153/A/BAQE/15/2 MCE150/P	60147809	3 x 400V	15,0	20,0	32,60	MCE150/P	100	80	221

STANDARDISED CENTRIFUGAL PUMPS ON SKID WITH INVERTER FOR PRESSURIZATION SYSTEM

PERFORMANCE RANGE

KDNE 4 POLES WITH MCE/P

≅ 1450 1/min

MODEL	Q (m³/h) (l/min)	0	12	18	24	30	36	42	48	54	60	66	72	78	84	90	102	114	120	150	180	210		
		0	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1700	1900	2000	2500	3000	3500		
KDNE 40-250/240/A/BAQE/1/3/4 MCE30/P	H (m)	19.1	19	18.2	17	15.5																		
KDNE 50-250/263/A/BAQE/1/5,5/4 MCE55/P		23	23	22.9	22.8	22.5	21.7	20.6	19.4	17.5														
KDNE 65-250/240/A/BAQE/1/5,5/4 MCE55/P		19			19	18.9	18.5	18.1	17.5	16.8	16	14.7	13.6											
KDNE 65-250/263/A/BAQE/1/7,5/4 MCE110/P		23.2			23	23	22.9	22.5	22.2	21.6	20.8	19.8	18.6	17.4	16									
KDNE 65-315/260/A/BAQE/1/7,5/4 MCE110/P		22.3			22.2	22.1	22	21.5	21	20.5	20	19.2	18.4	17	16	15								
KDNE 65-315/290/A/BAQE/1/11/4 MCE150/P		28.2			28.2	28.1	28	27.8	27.3	27	26.5	25.5	25	24	23.1	22	19.5							
KDNE 65-315/320/A/BAQE/1/15/4 MCE150/P		35.7			35.4	35.3	35.2	35.1	35	34.8	34.5	33.8	33.5	32.5	31.5	30.8	28	24.8						
KDNE 80-250/230/A/BAQE/1/7,5/4 MCE110/P		17.3						17.3	17.2	17.1	17	16.9	16.8	16.5	16	15.5	14.3	12.4						
KDNE 80-250/260/A/BAQE/1/11/4 MCE150/P		22.6						22.5	22.5	22.4	22.3	22.2	22.1	22	21.8	21.4	20.6	19.6	19	15.1				
KDNE 80-250/270/A/BAQE/1/15/4 MCE150/P		24.5						24.4	24.4	24.4	24.3	24.2	24.1	24	23.7	23.3	22.4	21.4	20.7	16.3				
KDNE 80-315/290/A/BAQE/1/15/4 MCE150/P		27.8							27.8	27.8	27.7	27.7	27.6	27.6	27.5	27.4	26.5	25	24.6	19.1				
KDNE100-250/260/A/BAQE/1/15/4 MCE150/P		22.3									22.1	22.1	22.1	22	21.9	21.8	21.7	21.5	21.4	19.8	17.7	15.1		
KDNE100-315/275/A/BAQE/1/15/4 MCE150/P		25.1									25	25	25	24.9	24.8	24.7	24.6	24.4	24	22	19			

ENBLOC CENTRIFUGAL PUMPS WITH INVERTER - FOR PRESSURIZATION SYSTEM

PERFORMANCE RANGE

KDNE 2 POLES WITH MCE/P

≈ 2900 1/min

MODEL	Q (m³/h) (l/min)	0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	102	114	120	150	180	210	240
		0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1700	1900	2000	2500	3000	3500	4000
KDNE 32-125.1/130/A/BAQE/1/2.2/2 MCE22/P		22.3	22.2	21.3	19																			
KDNE 32-125.1/140/A/BAQE/1/3/2 MCE30/P		26.5	26.4	25.6	23.4	20.1																		
KDNE 32-125/125/A/BAQE/1/2,2/2 MCE22/P		20.9		20.1	18.9	16.9	13.5																	
KDNE 32-125/130/A/BAQE/1/3/2 MCE30/P		22.9		22	21	19.1	16.2																	
KDNE 32-125/142/A/BAQE/1/4/2 MCE55/P		27.8		27	26.1	24.5	21.7	18																
KDNE 32-160.1/137/A/BAQE/1/1,5/2 MCE22/P		21.5	21.2	19.3																				
KDNE 32-160.1/145/A/BAQE/1/2,2/2 MCE22/P		24.7	24.5	22.3	16.5																			
KDNE 32-160.1/153/A/BAQE/1/3/2 MCE30/P		28.3	28	26	20.5																			
KDNE 32-160.1/177/A/BAQE/1/5,5/2 MCE55/P		39.5	39.3	38.2	34.5	26																		
KDNE 32-160/145/A/BAQE/1/3/2 MCE30/P		27		25.8	23.9	21.2	16.9																	
KDNE 32-160/161/A/BAQE/1/5,5/2 MCE55/P		34		33	31.7	29.1	25.5																	
KDNE 32-160/177/A/BAQE/1/7,5/2 MCE110/P		41.8		41.5	40.5	38.4	35.3	31.4																
KDNE 32-200.1/170/A/BAQE/1/3/2 MCE30/P		34.3	34.2	31.9	23.5																			
KDNE 32-200.1/190/A/BAQE/1/5,5/2 MCE55/P		45.3	44.7	41.5	35.5																			
KDNE 32-200.1/207/A/BAQE/1/7,5/2 MCE110/P		55.3	55	51.8	46.4	37																		
KDNE 32-200/180/A/BAQE/1/5,5/2 MCE55/P		39		38.5	36.5	32.5	28																	
KDNE 32-200/200/A/BAQE/1/7,5/2 MCE110/P		51		49	48	45	40.5	35																
KDNE 32-200/210/A/BAQE/1/ 11/2 MCE150/P		57		56	55	52.5	48.5	43	36															
KDNE 32-200/219/A/BAQE/1/15/2 MCE150/P		63		62	61	59	56.5	52.5	46.5	39.5														
KDNE 40-125/142/A/BAQE/1/5,5/2 MCE55/P		26.8		26.6	26.4	26	25.3	24.4	23	21.4	19.4	17												
KDNE 40-160/145/A/BAQE/1/5,5/2 MCE55/P	H (m)	27.5			27.4	27	25.7	24.2	22.1	19.5														
KDNE 40-160/161/A/BAQE/1/7,5/2 MCE110/P		34.5			34.5	34.4	33.7	32.3	30.5	28.5	25.8	22.5												
KDNE 40-160/177/A/BAQE/1/11/2 MCE150/P		42.6			42.5	42.4	42	41.5	40	38.5	35	33	30											
KDNE 40-200/180/A/BAQE/1/7,5/2 MCE110/P		38.8			38.5	38	37	35	32.5	29	25													
KDNE 40-200/200/A/BAQE/1/11/2 MCE150/P		48.7			48.4	48.2	47.5	46.5	44	41.5	38.5	34.5												
KDNE 40-200/219/A/BAQE/1/15/2 MCE150/P		60			59.8	59.7	59.4	59	57	55	52.5	49.5	46	40										
KDNE 40-250/220/A/BAQE/1/15/2 MCE150/P		63.1			62.8	62.5	61	59	57	55	52	48												
KDNE 50-125/139/A/BAQE/1/7,5/2 MCE110/P		24.7					24.5	24.3	24	23.5	23	22.4	21.6	20.8	20	19.2	18	15.5						
KDNE 50-125/144/A/BAQE/1/11/2 MCE150/P		25.9					26.5	26.4	26.1	25.6	25.1	24.5	24	23.2	22.3	21.5	20.5	17.8	15					
KDNE 50-160/145/A/BAQE/1/7,5/2 MCE110/P		27.2					27	26.9	26.6	26.4	25.5	25	23.8	23	21.5	20.5	19							
KDNE 50-160/161/A/BAQE/1/11/2 MCE150/P		33.8					33.7	33.7	33.6	33.6	33.3	32.5	31.8	31	29.8	28.5	27.5							
KDNE 50-160/177/A/BAQE/1/15/2 MCE150/P		41.6					41.5	41.5	41.3	41.2	41	40.6	40.5	39.5	38.8	38	36.7	33.5						
KDNE 50-200/180/A/BAQE/1/11/2 MCE150/P		42.5					42	41.7	41.4	40.5	39.5	38	36	34	32	29								
KDNE 50-200/190/A/BAQE/1/15/2 MCE150/P		47.2					46.8	46.6	46	45.7	44.5	43.5	42	40	38	35.5	33							
KDNE 65-125/130/A/BAQE/1/7,5/2 MCE110/P		21								19.6	19.5	19.1	18.9	18.5	18	17.5	17	15.7	14.2	13.2				
KDNE 65-125/144/A/BAQE/1/11/2 MCE150/P		25.6								25.5	25.4	25.2	25	24.6	24.3	24	23.4	22.5	21.1	20.2	16			
KDNE 65-160/137/A/BAQE/1/7,5/2 MCE110/P		23.1								22.4	22	21.7	21.3	20.5	19.7	19	18	16						
KDNE 65-160/153/A/BAQE/1/11/2 MCE150/P		29.1								28.8	28.5	28.6	28.5	28	27.5	26.6	26	24	22	21				
KDNE 65-160/169/A/BAQE/1/15/2 MCE150/P		36.4								36.3	36.2	36.1	36	35.7	35.3	34.7	34	32.7	31	30				
KDNE 65-200/170/A/BAQE/1/15/2 MCE150/P		37.2								36.8	36.7	36.6	36.5	36	35	34	32.5	30	27	25				
KDNE 80-160/153-136/A/BAQE/1/15/2 MCE150/P		25.6															24.5	23.8	23	22.5	20.2	17.5	15	11.8