

50Hz



GENERAL CATALOGUE

Edition 2022

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Where there's water there's Pentax



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PENTAX s.p.a.



8I/8IS/8IX

Deepwell Motors



Line of electric motors from 8" asynchronous, rewindable built in the following execution: 8I, 8IS, 8IX. Motor is filled with a water and glycol mixture guarantees cooling and lubrication of the thrust unit. For applications with inverter or with liquid with temperature higher than 30 °C insulation type PE2+PA is available.

Construction features

Upper and bottom support	cast iron (8I) stainless steel AISI 304 (8IS); stainless steel AISI 316 (8IX)
External jacket	stainless steel AISI 304 (8I, 8IS) stainless steel AISI 316 (8IX)
Mechanical seal	ceramic-graphite SiC optional
Bearings	radial and axial, water lubricated
Number of startups/hr	max 7

Motor

Asynchronous 2 poles rewound in water filled	3~ 3x400V \pm 10% - 50Hz 3~ 3x400/690V \pm 10% - 50Hz
Cooling flow	min 1 m/s
Insulation class	B
Insulation	PE1; PE2 + PA (on request)
Protection degree	IP68



Type	Power		V	A	R.p.m.	Efficiency motor %			cos φ		
	HP	kW				50	75	100	50	75	100
8I 30	30	22	400	48,8	2881	79,4	80,7	79,9	0,71	0,79	0,82
8I 40	40	30	400	62,0	2938	76,7	78,8	80,7	0,79	0,84	0,86
8I 50	50	37	400	74,0	2920	86,0	86,2	84,9	0,76	0,83	0,86
8I 60	60	45	400	89,5	2898	83,0	85,5	84,0	0,75	0,83	0,86
8I 70	70	52	400	107,0	2939	82,7	83,2	82,9	0,72	0,81	0,85
8I 75	75	55	400	111,0	2936	78,9	82,0	82,8	0,67	0,77	0,82
8I 80	80	59	400	119,0	2920	81,9	85,3	84,2	0,75	0,82	0,86
8I 90	90	66	400	135,0	2947	83,0	85,0	85,5	0,70	0,80	0,84
8I 100	100	75	400	146,0	2892	85,0	86,1	85,6	0,74	0,82	0,86
8I 110	110	81	400	162,0	2928	85,2	87,2	86,0	0,71	0,80	0,85
8I 125	125	92	400	185,0	2933	84,4	85,7	86,4	0,70	0,80	0,84
8I 150	150	110	400	219,0	2928	84,6	85,3	85,6	0,73	0,82	0,86

Motor Type	Power		Lead (mm ²)		Cable length m
	HP	kW	400 V 50 Hz		
			Dol	Star - Delta	
8I 30	30	22	4x4	3x2,5 - 4x2,5	4
8I 40	40	30	4x10	3x6 - 4x6	
8I 50	50	37			
8I 60	60	45	3x16	3x10 - 4x10	
8I 70	70	52			
8I 75	75	55	3x16	3x10 - 4x10	
8I 80	80	59			
8I 90	90	66	3x25	3x16 - 3x16	
8I 100	100	75			
8I 110	110	81	3x25	3x16 - 3x16	
8I 125	125	92			
8I 150	150	110	3x35	3x25 - 3x25	

DIMENSIONS					
Motor Type	Power		Axial Thrust N	Length mm	Weight Kg
	HP	kW			
8I 30	30	22	38000	930	121
8I 40	40	30		1020	137
8I 50	50	37		1050	143
8I 60	60	45		1130	158
8I 70	70	52		1180	174
8I 75	75	55		1210	181
8I 80	80	59		1240	187
8I 90	90	66	45000	1315	201
8I 100	100	75		1430	218
8I 110	110	81		1450	227
8I 125	125	92		1550	249
8I 150	150	110		1730	289

