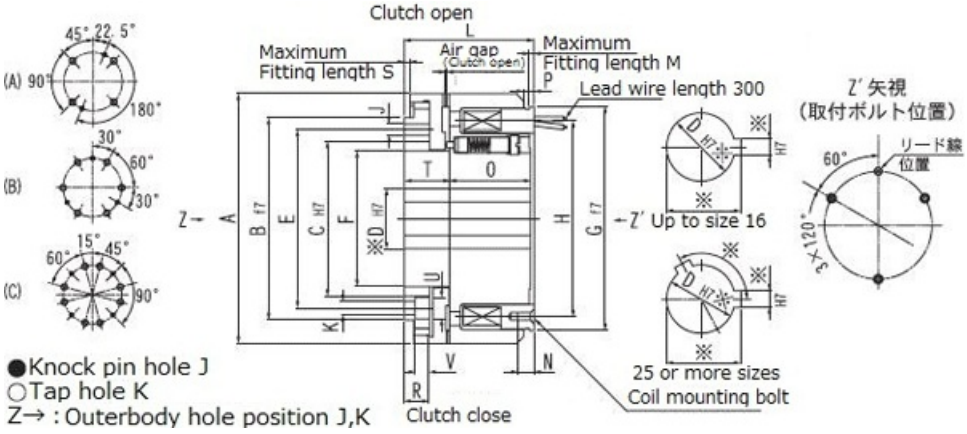
EZL Type

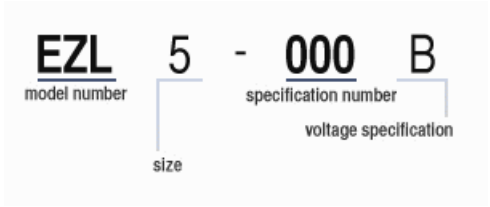
Electromagnetic toothed clutch

2023/03/22

Overall View



Part Number



Specifications

Model	Max Speed [min-1]	Weight [kg]	Torque [N·m]	Coil 20deg.C Voltage DC [V]	Coil 20deg.C Wattage [W]	Coil 20deg.C Current [A]
EZL5	6000	1.95	50	24	17.0	0.71
EZL10	5500	3.12	100	24	36.2	1.51
EZL16	5000	4.20	160	24	38.3	1.60
EZL25	4500	5.30	250	24	44.6	1.86
EZL40	4000	7.40	400	24	53.3	2.22

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EZL63	3500	11.10	630	24	73.0	3.04
EZL100	3000	16.50	1000	24	72.7	3.03
EZL160	2600	25.00	1600	24	102.5	4.27
EZL250	2300	40.70	2500	24	141.0	5.87
EZL400	2000	55.40	4000	24	188.0	7.82

Model	Air Gap Clutch Open [mm]
EZL5	0.5
EZL10	0.5
EZL16	0.5
EZL25	0.6
EZL40	0.6
EZL63	0.7
EZL100	0.7
EZL160	0.9
EZL250	0.9
EZL400	1.0

Diameter

Model	Diameter A [mm]	Diameter B f7 [mm]	Diameter C H7 [mm]	Diameter D max H7 [mm]	Diameter D Pilot Hole H7 [mm]	Diameter E [mm]
EZL5	90	75	53	40	10	64
EZL10	105	85	65	45	14	75
EZL16	115	100	70	50	18	85
EZL25	125	105	75	55	20	90
EZL40	140	115	85	60	25	100
EZL63	160	130	95	70	30	115
EZL100	185	155	115	80	35	135
EZL160	215	180	130	95	40	155
EZL250	250	210	150	110	50	180
EZL400	280	235	175	125	60	205

					Diameter J	Diameter	Diameter U

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Model	Diameter F [mm]	Diameter G f7 [mm]	Diameter H [mm]	Diameter I (Coil Mounting Hole) [mm]	(Ream Hole) [mm]	K (Bolt Hole) [mm]	(Spot facing Hole) [mm]
EZL5	49.0	80	74	3-M4	2-ø5	4-M5	ø9
EZL10	57.0	94	82	3-M4	2-ø5	4-M5	ø9
EZL16	62.0	102	90	3-M4	2-ø6	4-M6	ø11
EZL25	68.0	112	100	3-M4	2-ø8	4-M6	ø11
EZL40	74.0	125	110	3-M6	3-ø8	6-M6	ø11
EZL63	85.0	140	125	3-M6	3-ø8	6-M8	ø15
EZL100	97.0	164	148	3-M8	3-ø10	6-M8	ø15
EZL160	113.0	190	170	3-M8	3-ø10	6-M10	ø18
EZL250	130.0	224	200	3-M10	4-ø12	8-M12	ø20
EZL400	148.0	258	235	3-M10	4-ø12	8-M12	ø20

Length

Model	Length L [mm]	Length M [mm]	Length N [mm]	Length O [mm]	Length P [mm]	Length R [mm]
EZL5	49.0	2.5	6.0	30.5	5.0	9.0
EZL10	54.5	2.0	7.0	34.0	4.5	10.5
EZL16	62.0	2.0	7.0	38.5	5.1	12.5
EZL25	69.0	2.0	7.0	42.0	4.1	15.5
EZL40	77.0	2.5	8.0	47.0	5.6	17.0
EZL63	92.0	3.0	12.0	57.0	8.0	19.5
EZL100	103.0	3.0	13.0	65.0	8.0	21.0
EZL160	119.0	3.0	14.5	75.0	12.0	25.5
EZL250	141.0	3.0	20.0	89.0	11.0	29.0
EZL400	168.0	4.0	20.0	111.0	10.0	32.0

Model	Length S [mm]	Length T [mm]	Length V (Spot facing Depth) [mm]
EZL5	2.0	16.5	6.0
EZL10	2.0	19.0	6.0
EZL16	2.0	21.5	7.2
EZL25	2.5	25.0	7.2
EZL40	2.5	28.0	7.2

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EZL63	3.0	33.0	9.4
EZL100	3.0	36.0	9.4
EZL160	4.0	42.0	11.8
EZL250	4.0	49.0	14.2
EZL400	4.0	55.0	14.2

Other Specifications

Model	Moment of Inertia J Armature Side [×10-2kg·m2]	Moment of Inertia J Rotor Side [×10-2kg·m2]
EZL5	0.0600	0.0775
EZL10	0.1375	0.1625
EZL16	0.2250	0.2750
EZL25	0.3500	0.4000
EZL40	0.6750	0.7000
EZL63	1.2500	1.5000
EZL100	3.0000	3.2500
EZL160	5.5000	6.2500
EZL250	11.2500	13.0000
EZL400	21.2500	21.7500

Notes

1.Applied hole location on outer body is either of (A) EZEL 2 - 25, (B) EZL 40 - 160 or (C) EZL250・400.
2.Please indicate dimension of the part marked. (If nothing is indicated, product with prepared hole shall be delivered).
3.Since product with prepared knock pin hole is delivered, it shall be processed at assembly.