



YAWATA's ECC (Eddy Current Coupling) MOTORS

Since 1953, YAWATA Electric has produced more than 400,000 ECC Motors in Japan with superior quality and reliability.

Following up on these many years of experience, we now supply ECC motors that are fully compatible with YASKAWA and MagneTek.

■ Fully Compatible with YASKAWA and MagneTek ECC Motors

- The drive size is identical, and no mechanical modification is needed to use those ECC Motors on your machines.
- The specifications of the tach-gen (speed detector) and excitation coil are the same. No electrical modification is needed on your controllers.



ECZV-N 1hp

■ Rugged Design and High Reliability

- TEFC (Totally Enclosed Fan Cooled) construction of motor enclosure permits use under harsh conditions.
- The epoxy resin bonded excitation coils and tach-gen stators allow use in exceptionally humid and dusty atmospheres.
- Rugged vibration resistance made possible by the sausage-shaped design.



ECZV-N 3hp

■ Maintenance Free

- None of the slip rings or brushes require replacement or cleaning.
- The grease-sealed bearings require no lubrication.



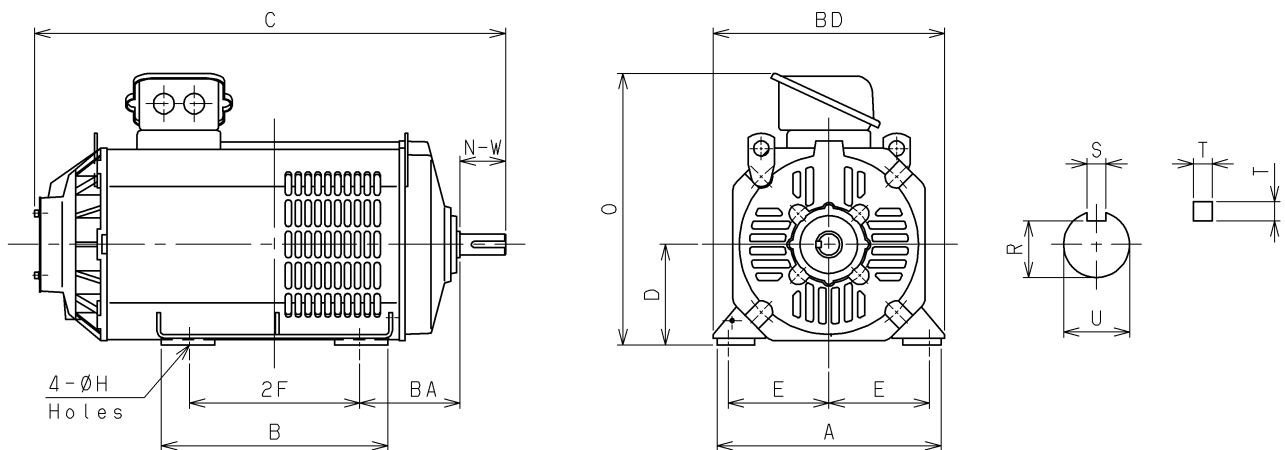
ECZV-N 20hp

YAWATA Electric Machinery Mfg. Co., Ltd.

MagneTek ECC Motors:

■Standard Type

MagneTek		YAWATA		HP	Speed Range	Motor Rating
Model	Model No.	Model	Model No.			
VBOZN-TY2	71860	ECZV-NP5	Y71860	1	1640-100	4pole, 230/460Volt 60Hz
	71861		Y71861	2	1650-100	
	71862		Y71862	3	1630-100	
	71863		Y71863	5	1630-100	
	71864		Y71864	7.5	1650-100	
	71865		Y71865	10		
	71866		Y71866	15		
	71867		Y71867	20	1690-100	
	71868		Y71868	30		
	71869		Y71869	40		
	71870		Y71870	50		



※ Motor drawing of ECZV-NP5 from 3hp to 15hp. (The shapes of 1hp, 2hp, and 20hp to 50hp motors differ from this drawing.)

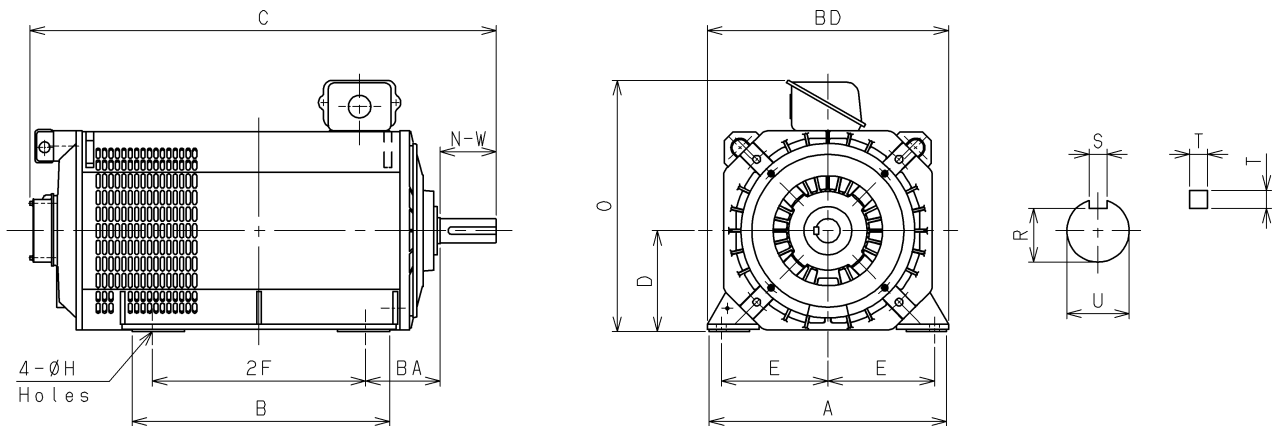
Model No.	HP	Dimensions (Inches)													
		A	C	D	E	2F	H	O	P	R	S	T	U	BA	N-W
Y71860	1	8.07	18.70	3.94	3.15	5.51	0.47	9.25	7.28	0.517	0.188	0.188	0.625	5.20	1.88
Y71861	2	9.65	21.26	4.41	4.25	7.01	0.47	10.24	8.35	0.771	0.188	0.188	0.875	5.51	2.25
Y71862	3	10.43	23.03	4.41	4.65	7.09	0.47	12.60	8.70	0.986	0.250	0.250	1.125	4.92	2.75
Y71863	5	11.61	25.00	5.20	5.22	8.82	0.47	13.98	9.96	0.986	0.250	0.250	1.125	5.20	2.75
Y71864	7.5	13.58	28.74	6.30	6.20	9.84	0.59	16.14	11.93	1.201	0.312	0.312	1.375	6.30	3.38
Y71865	10	13.58	30.91	6.30	6.20	11.81	0.59	16.14	11.93	1.201	0.312	0.312	1.375	6.30	3.38
Y71866	15	15.16	32.87	7.09	6.99	12.40	0.75	17.72	13.50	1.416	0.375	0.375	1.625	7.09	4.00
Y71867	20	16.73	36.02	7.09	7.58	15.16	0.75	16.73	14.69	1.416	0.375	0.375	1.625	5.91	4.00
Y71868	30	18.70	39.76	7.87	8.37	16.73	0.75	20.87	16.30	1.591	0.500	0.500	1.875	6.50	4.62
Y71869	40	20.67	42.72	8.86	9.35	19.69	0.94	22.83	18.27	1.845	0.500	0.500	2.125	6.89	5.25
Y71870	50	23.23	45.47	9.84	10.43	20.87	0.94	24.80	20.43	1.845	0.500	0.500	2.125	7.28	5.25

■Standard Type with ODP Motor

MagneTek		YAWATA		HP	Speed Range	Motor Rating
Model	Model No.	Model	Model No.			
VBOZN-BTY3	71955	ECZV-NP6	Y71955	60	1650-550	4pole, 230/460Volt 60Hz
	71956		Y71956	75	1650-825	
	71957		Y71957	100		

■Standard Type for MINSTER PUNCH PRESS DRIVES

MagneTek		YAWATA		HP	Speed Range	Motor Rating
Model	Model No.	Model	Model No.			
VBOZN-TY2	72261	ECZV-NP5	Y72261	60	1650-550	4pole, 230/460Volt 60Hz
	72262		Y72262	75		
	72263		Y72263	100		
	71964		Y71964	60	1650-550 (60Hz)	Multi Voltage
	71963		Y71963	100		



※ Motor drawing of ECZV-NP5 from 60hp to 100hp. (The shape of 40hp motors differs from this drawing.)

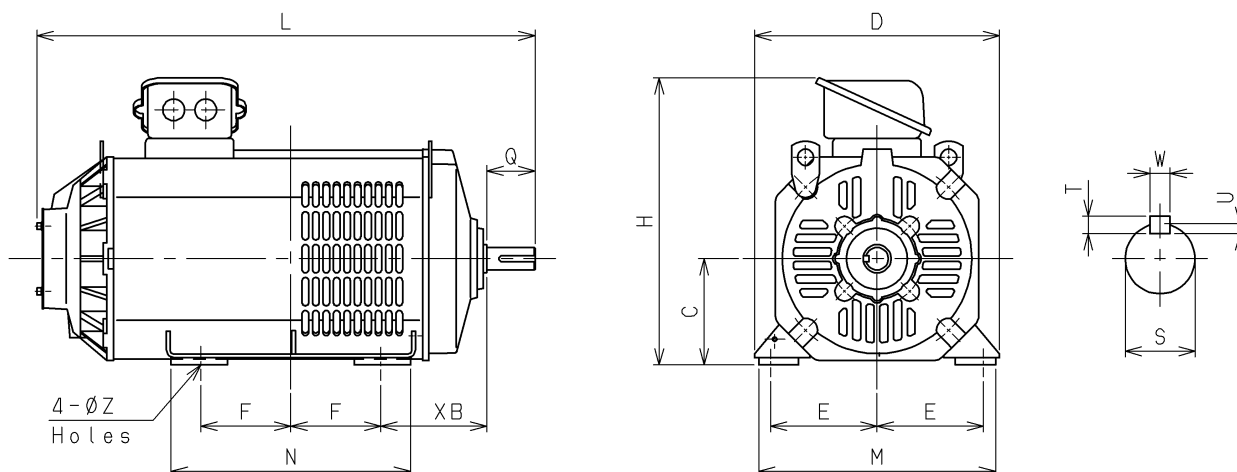
Model No.	HP	Dimensions (Inches)													
		A	C	D	E	2F	H	O	P	R	S	T	U	BA	N-W
Y72261	60	23.23	51.77	9.84	10.43	25.59	0.94	26.40	20.67	2.021	0.625	0.625	2.375	8.27	5.88
Y72262	75	23.23	51.77	9.84	10.43	25.59	0.94	26.40	20.67	2.021	0.625	0.625	2.375	8.27	5.88
Y72263	100	25.98	59.06	11.02	11.81	27.56	1.10	28.35	23.23	2.880	0.875	0.875	3.375	8.86	8.50

■Standard Type with EC Brake

MagneTek		YAWATA		HP	Speed Range	Motor Rating
Model	Model No.	Model	Model No.			
VBOQZN-TY2	71881	ECQZV-NP5	Y71881	2	1650-100	4pole, 230/460Volt 60Hz
	72002		Y72002	3	1630-100	
	72003		Y72003	5	1630-100	
	72004		Y72004	7.5	1650-100	
	71885		Y71885	10		
	71886		Y71886	15		
	71887		Y71887	20	1690-100	
	71888		Y71888	30		
	71889		Y71889	40		
	71890		Y71890	50		

YASKAWA ECC Motors:

Model		HP	Speed Range		Motor Rating
YASKAWA	YAWATA		50Hz	60Hz	
(Standard Type) VBOZN-Y2, Y3	ECZV-N	0.3-5	1100-100	1500-100	4pole, 230/460V, 60Hz and Special Voltage
		10-15	1200-100	1650-100	
		20-50	1375-100	1690-100	
(Outdoor Type) VBOZN-OY2, OY3	ECZV-NO	0.3-5	1100-100	1500-100	
		10-15	1200-100	1650-100	
		20-50	1375-100	1690-100	
(with ECC Brake) VBOQZN-Y2, Y3	ECQZV-N	2-5	1100-100	1500-100	
		10-15	1200-100	1650-100	
		20-50	1375-100	1690-100	
(ODP Motor Type) VBOZN-BY3	ECZV-NP1	7.5-20	1350-450	1650-550	
(ODP Motor Type) VBOZN-BY5S	ECZV-NP2	30-75	1350-550	1650-660	
(ODP Motor Type) VBOZN-BY6S	ECZV-NP3	20-40	1350-450	1650-550	
(ODP Motor Type) VBOZN-BY4	ECZV-NP4	7.5-100	1350-450	1650-550	



※ Motor drawing of ECZV-N 3hp to 15hp. (The shapes of 0.3hp to 2hp motors, and 20hp to 50hp motors, differ from this drawing.)

Model	HP	Dimensions (mm)														
		C	D	E	F	H	L	M	N	XB	Z	Q	S	T	U	W
ECZV-N	0.3	90	-	70	62.5	215	425	180	155	112	-	30	14J6	5	3	5
	0.5	90	-	70	62.5	215	425	180	155	112	-	30	14J6	5	3	5
	1	100	-	80	70	235	465	205	170	132	12	40	19J6	6	3.5	6
	2	112	257	108	89	260	530	245	210	140	12	50	24J6	7	4	8
	3	112	275	118	90	320	570	265	250	125	12	60	28J6	7	4	8
	5	132	305	132.5	112	355	620	295	298	132	12	60	28J6	7	4	8
	7.5	160	355	157.5	125	410	715	345	320	160	15	80	38k6	8	5	10
	10	160	355	157.5	150	410	770	345	370	160	15	80	38k6	8	5	10
	15	180	395	177.5	157.5	450	835	385	385	180	19	110	42k6	8	5	12
	20	180	435	192.5	192.5	420	920	425	465	150	19	110	42k6	8	5	12
	30	200	485	212.5	212.5	520	1000	475	515	165	19	110	48k6	9	5.5	14
	40	225	535	237.5	250	570	1060	525	600	175	24	110	55m6	10	6	16
	50	250	600	265	265	620	1160	590	640	185	24	140	60m6	11	7	18

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