

BALDOR • RELIANCE®

**Inverter,
Three Phase,
TEBC and TENV,
C-Face,
Foot Mounted**

1/3 thru 200 Hp

NEMA 56C thru 447T

Applications: Conveyors, pumps, fans, metal processing, compressors, test stands, and material handling equipment.

Features: Designed for inverter or vector applications where up to a 1000:1 constant torque speed range is required. Compatible with optional encoder feedback devices for use in closed loop velocity or position control. Meets NEMA MG 1, Part 31. Encoder has mating connector.



Hp	RPM	Max. RPM	NEMA Frame	Enclosure	Catalog Number	List Price	Mult. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
1/3	1800	6000	56C	TENV	IDNM3534	381	E2	13.84	26	76	230/460	0.6	2,8,60
1/2	1800	6000	56C	TENV	IDNM3538	446	E2	13.84	32	75.5	230/460	0.8	2,8,60
3/4	1800	6000	56C	TENV	IDNM3542	497	E2	13.84	35	80	230/460	1.1	2,8,60
1	1800	6000	143TC	TEBC	IDM3581T	1,340	E2	19.15	60	87.5	230/460	1.5	2,8,46,55
			143TC	TEBC	IDM3581T-5	1,340	E2	19.15	61	86.5	575	1.1	2,8,46,55
			143TC	TENV	IDNM3581T	1,015	E2	14.65	59	81.5	230/460	1.6	2,8,60
1 1/2	1800	6000	145TC	TEBC	IDM3582T	1,574	E2	19.15	64	82.5	230/460	1.8	2,8,46,55
			145TC	TEBC	IDM3584T	1,417	E2	19.15	63	88.5	230/460	2.1	2,8,46,55
			145TC	TENV	IDM3584T-5	1,417	E2	19.15	66	87.5	575	1.7	2,8,46,55
2	1800	6000	182TC	TEBC	IDM3667T	1,770	E2	21.71	111	86.5	230/460	2.6	2,8,46,55
			145TC	TEBC	IDM3587T	1,515	E2	19.15	68	88.5	230/460	2.7	2,8,46,55
			145TC	TENV	IDM3587T-5	1,515	E2	19.15	71	86.5	575	2	2,8,46,55
3	1800	6000	145TC	TENV	IDNM3587T	1,170	E2	14.65	64	84	230/460	2.7	2,8,60
			182TC	TENV	IDNM3669T	1,358	E2	17.21	92	84	230/460	2.9	2,8,60
			184TC	TEBC	IDM3664T	1,819	E2	21.71	116	87.5	230/460	3.6	2,8,46,55
5	1800	6000	184TC	TEBC	IDM3661T	1,937	E2	21.71	104	89.5	230/460	4	2,8,46,55
			184TC	TEBC	IDM3661T-5	1,937	E2	21.71	103	89.5	575	3.2	2,8,46,55
			184TC	TENV	IDNM3661T	1,533	E2	17.21	105	88.5	230/460	4	2,8,60
7 1/2	1800	6000	213TC	TEBC	IDM3764T	2,379	E2	29.14	172	89.5	230/460	5	2,8,70
			184TC	TEBC	IDM3665T	2,049	E2	21.71	120	90.2	230/460	6.5	2,8,46,55
			184TC	TEBC	IDM3665T-5	2,049	E2	21.71	120	90.2	575	5.2	2,8,46,55
10	1800	6000	184TC	TENV	IDNM3665T	1,710	E2	17.21	112	89.5	230/460	6.6	2,8,60
			213TC	TENV	IDNM3767T	1,906	E2	20.40	166	89.5	230/460	6.7	2,8,60,70
			215TC	TEBC	IDM3768T	2,913	E2	29.14	200	88.5	230/460	8	2,8,70
15	1800	5000	254TC	TENV	IDNM2237T	2,371	E2	24.05	238	90.2	230/460	9.1	2,8,60,70
			213TC	TEBC	IDM3770T	2,470	E2	29.14	176	91.7	230/460	9.5	2,8,70
			213TC	TEBC	IDM3770T-5	2,470	E2	30.07	185	90.2	575	7.8	2,8,70
20	1800	5000	213TC	TENV	IDNM3770T	1,978	E2	20.40	196	91.7	230/460	10.1	2,8,60,70
			254TC	TEBC	IDM2276T	4,188	E2	33.07	286	91.7	230/460	10.7	2,8,70
			5000	256TC	TENV	IDNM2238T	2,481	E2	24.05	281	91.7	230/460	13
20	1800	5000	215TC	TEBC	IDM3774T	2,646	E2	29.14	219	92.4	230/460	12.5	2,8,70
			215TC	TEBC	IDM3774T-5	2,646	E2	30.07	196	91.7	575	10	2,8,70
			256TC	TEBC	IDM2332T	5,116	E2	33.07	328	91.7	230/460	14.2	2,8,70
20	1800	5000	254TC	TENV	IDNM2333T	2,555	E2	24.05	286	94.1	230/460	18.5	2,8,60,70
			256TC	TEBC	IDM2333T	2,877	E2	33.07	139	92.4	230/460	18.5	2,8,70
			256TC	TEBC	IDM2333T-5	2,877	E2	34.15	255	92.4	575	14.8	2,8,70
20	1800	5000	284T	TEBC	IDM4100T	6,066	E2	36.48	422	93	230/460	19.7	2,8,45,70
			256TC	TEBC	IDM2334T	3,073	E2	33.07	286	93	230/460	24	2,8,70
			256TC	TEBC	IDM2334T-5	3,073	E2	34.15	286	93	575	19	2,8,70
20	1800	5000	284T	TENV	IDNM2334T	3,531	E2	27.36	410	94.5	230/460	25.5	2,8,45,60,70
			286T	TEBC	IDM4102T	6,830	E2	36.48	451	93	230/460	26	2,8,45,70

(a) See notes on inside back flap and pages 5-6.

Constant velocity fan: 115 volts, single phase from 143TC through 184TC and all 575 volt drive motors.

Constant velocity fan: 230/460, three phase from 213 TC through 447T.

May be converted to C-Face in Mod Express or built as custom motors.

Consult District Office for availability of 2 pole motors and C-Face motors for 284T through 5009L frames.

1000:1 CONSTANT TORQUE SPEED RANGE

■ Cast Iron Frame

Inverter, Three Phase, TEBC and TENV, C-Face, Foot Mounted

Hp	RPM	Max. RPM	NEMA Frame	Enclosure	Catalog Number	List Price	Mult. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
25	1800	4000	286T	TEBC	IDM4103T	3,789	E2	36.48	424	93.6	230/460	30	2,8,45,70
	1200	3500	324T	TEBC	IDM4111T	7,784	E2	39.24	565	93	230/460	32	2,8,45,70
30	1800	4000	286T	TEBC	IDM4104T	4,347	E2	36.48	455	94.1	230/460	36	2,8,45,70
	1200	3800	326T	TEBC	IDM4117T	8,663	E2	39.24	596	93	230/460	38	2,8,45,70
40	1800	3900	324T	TEBC	IDM4110T	5,878	E2	39.24	608	94.5	230/460	47	2,8,45,70
	1200	3600	364T	TEBC	IDM4308T	9,965	E2	41.58	767	94.1	230/460	49	2,8,45,70
50	1800	3900	326T	TEBC	IDM4115T	6,598	E2	39.24	632	94.5	230/460	57	2,8,45,70
	1200	3600	365T	TEBC	IDM4312T	11,490	E2	41.58	855	94.1	230/460	61	2,8,45,70
60	1800	3600	364T	TEBC	IDM4314T	7,609	E2	41.58	804	95	230/460	69	2,8,45,70
	1200	2800	404T	TEBC	IDM4403T	13,465	E2	46.68	1,196	94.5	230/460	72	2,8,45,70
75	1800	3600	365T	TEBC	IDM4316T	8,864	E2	41.58	908	95.4	230/460	84	2,8,45,70
	1200	2800	405T	TEBC	IDM4404T	15,681	E2	46.68	1,165	95	230/460	88	2,8,45,70
100	1800	2800	404T	TEBC	IDM4400T-4	14,288	E2	46.68	1,164	95.4	460	109	2,8,45,70
	1200	2400	444T	TEBC	IDM4409T-4	15,662	E2	51.98	1,672	95.4	460	120	2,8,45,70
125	1800	2400	444T	TEBC	IDM4410T-4	18,007	E2	51.98	1,635	95.4	460	139	2,8,45,70
150	1800	2400	445T	TEBC	IDM4406T-4	20,396	E2	51.98	1,630	95.8	460	173	2,8,45,70
200	1800	2400	447T	TEBC	IDM4407T-4	23,372	E2	55.49	2,242	96.2	460	224	2,8,45,70

(a) See notes on inside back flap and pages 5-6.

Constant velocity fan: 115 volts, single phase from 143TC through 184TC and all 575 volt drive motors.

Constant velocity fan: 230/460, three phase from 213 TC through 447T.

May be converted to C-Face in Mod Express or built as custom motors.

Consult District Office for availability of 2 pole motors and C-Face motors for 284T through 5009L frames.

1000:1 CONSTANT TORQUE SPEED RANGE

■ Cast Iron Frame

Inverter Motor, Three Phase, TENV, C-Face, Foot Mounted



1 thru 10 Hp

NEMA 143TC thru 254TC

Applications: Conveyors, pumps and other equipment in food processing and other wet environments.

Features: Designed for inverter or vector applications where up to a 1000:1 constant torque speed range is required. Provisions for mounting optional HS25 encoder feedback devices shown on page 209 for use in closed loop velocity or position control. Meets NEMA MG 1, Part 31. 1.00 Service Factor. Class "H" insulated.

Hp	RPM	Max. RPM	NEMA Frame	Catalog Number	List Price	Mult. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
1	1800	6000	143TC	IDWNM3546T	1,196	E2	14.90	39	86.5	230/460	1.4	
1 1/2	1800	6000	145TC	IDWNM3554T	1,318	E2	15.78	50	87.5	230/460	2.1	
2	1800	6000	182TC	IDWNM3609T	1,452	E2	17.77	69	84	230/460	2.9	
3	1800	6000	184TC	IDWNM3611T	1,582	E2	17.77	80	88.5	230/460	4	
5	1800	6000	213TC	IDWNM3707T	1,790	E2	19.84	119	89.5	230/460	6.7	
7 1/2	1800	5000	254TC	IDWNM22937T	2,774	E2	23.92	242	91	230/460	9.1	
10	1800	5000	254TC	IDWNM22938T	3,249	E2	23.92	291	91.7	230/460	12	

(a) See notes on inside back flap and pages 5-6.

1000:1 CONSTANT TORQUE SPEED RANGE

Farm Duty Motors

Definite Purpose Motors

Unit Handling Motors

Brake Motors

200 & 575 Volt Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Starters & Dynamic Brakes