

SIMOTICS Definite purpose motors

RGZESDI

10:1 Constant torque
Adjustable speed drive only

RGZESDI severe duty TEFC motors are designed for inverter or vector applications where up to a 10:1 constant torque speed range is required. These motors are well suited to be used with adjustable speed applications such as mixers, chemical processing, pulp and paper, waste management and petro/chemical.

Performance specifications

- 1 to 350 HP
- 3600, 1800, 1200 RPM base speeds
- 3 phase, 60 Hz, 460V, 1 - 350 HP
- Class F insulation
- 143T through S449 frame

Features for long life

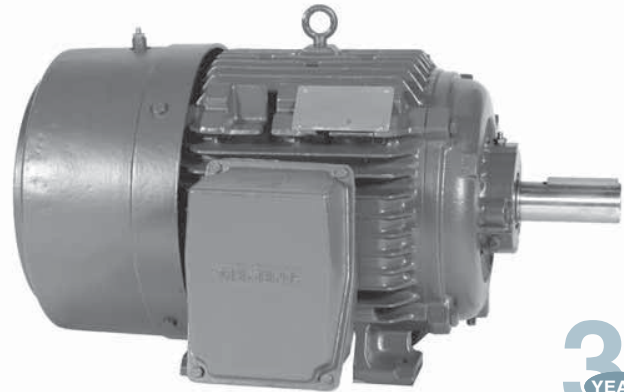
Frame and bearing housings – Cast iron construction for exceptional structural integrity and corrosion resistance. Condensation T-drains provided. Lifting eyebolts are included for motors > 75 lbs.

Rotor – A unique rotor design provides improved efficiency while larger bars and end rings reduce resistance for lower rotor losses. Each die cast aluminum rotor assembly is dynamically balanced for extended bearing life, and includes a high strength carbon steel (C1045) shaft for maximum rotor performance.

Stator/Windings – Manufactured with premium electrical grade steel laminations and copper electrical magnet wire to reduce losses and improve efficiencies. A unique stator core design lowers flux density while increasing cooling capacity. Large conductor cross section reduces resistance, also lowering stator losses.

Insulation – Proprietary inverter-duty Class F non-hygroscopic (corona resistant) insulation class F system provides an extra margin of thermal life. All motors are equipped with two series connected, normally closed, Class F thermostats for detection of overload conditions and/or excessive heating. For operation from adjustable speed drives with an insulation system that meets or exceeds NEMA MG1-2006, Part 31.

Cooling – A bi-directional, non-sparking fan is locked and keyed to the shaft. Its design reduces windage losses, improves airflow, reduces noise and provides dependable cooling. Cast iron fan covers are provided on all frame sizes.



Bearings – Regreasable, oversized single shielded with cast iron inner caps. Alemite® grease fittings on the inlets and pipe plugs on the relief ports for ease of routine maintenance. For added bearing protection, 143T-256T frames have a drive end shaft seal and 284T-S449 frames have a drive end shaft V-ring slinger.

Lubrication – Specially formulated, high temperature tested, polyurea based grease.

Conduit box – Oversized cast iron construction that is larger than industry standards, diagonally-split, neoprene gasketed and rotatable in 90° increments for quick and easy connections. A ground lug is provided. Non-wicking, clearly and permanently marked leads.

Corrosion resistance – Cast iron construction, zinc-plated hardware, epoxy enamel paint and stainless steel nameplate resist rust and corrosion.

Modifiable and custom – All Siemens SIMOTICS motors are available with a wide variety of QuikMOD modifications and custom designs to meet your specific motor needs.



SIMOTICS Definite purpose motors

RGZESDI

10:1 Constant torque
Adjustable speed drive only

460V 60Hz - Foot mounted

HP	RPM	Frame	Voltage	Type	Part Number	List Price \$	Mult. Symb.	FL Amps	Lbs	Stock
1	1800	143T	460	RGZESDI 10:1	1PC28911AB212AG3	1247	SA-7INV	1.5	45	✓
1	1200	145T	460	RGZESDI 10:1	1PC28911AC312AG3	1375	SA-7INV	1.8	55	✓
1.5	3600	143T	460	RGZESDI 10:1	1PC28911AA212AG3	1412	SA-7INV	2.0	45	✓
1.5	1800	145T	460	RGZESDI 10:1	1PC28911AB312AG3	1295	SA-7INV	2.2	55	✓
1.5	1200	182T	460	RGZESDI 10:1	1PC28911CC112AG3	1616	SA-7INV	2.3	85	✓
2	3600	145T	460	RGZESDI 10:1	1PC28911AA312AG3	1466	SA-7INV	2.5	55	✓
2	1800	145T	460	RGZESDI 10:1	1PC28911AB412AG3	1351	SA-7INV	2.9	62	✓
2	1200	184T	460	RGZESDI 10:1	1PC28911CC312AG3	1729	SA-7INV	3.0	100	✓
3	3600	182T	460	RGZESDI 10:1	1PC28911CA112AG3	1724	SA-7INV	3.6	85	✓
3	1800	182T	460	RGZESDI 10:1	1PC28911CB112AG3	1584	SA-7INV	3.9	85	✓
3	1200	213T	460	RGZESDI 10:1	1PC28912AC112AG3	1906	SA-7INV	4.0	135	✓
5	3600	184T	460	RGZESDI 10:1	1PC28911CA312AG3	1898	SA-7INV	5.8	100	✓
5	1800	184T	460	RGZESDI 10:1	1PC28911CB312AG3	1745	SA-7INV	6.5	100	✓
5	1200	215T	460	RGZESDI 10:1	1PC28912AC212AG3	2437	SA-7INV	6.8	160	✓
7.5	3600	213T	460	RGZESDI 10:1	1PC28912AA112AG3	2184	SA-7INV	8.8	151	✓
7.5	1800	213T	460	RGZESDI 10:1	1PC28912AB112AG3	2051	SA-7INV	9.5	157	✓
7.5	1200	256T	460	RGZESDI 10:1	1PC28912BC012AG3	3482	SA-7INV	9.8	300	
10	3600	215T	460	RGZESDI 10:1	1PC28912AA212AG3	2570	SA-7INV	12.0	160	✓
10	1800	215T	460	RGZESDI 10:1	1PC28912AB212AG3	2340	SA-7INV	13.0	160	✓
10	1200	284T	460	RGZESDI 10:1	1PC28912CC712AG3	4479	SA-7INV	13.0	380	
15	3600	256T	460	RGZESDI 10:1	1PC28912BA012AG3	3707	SA-7INV	17.0	295	
15	1800	256T	460	RGZESDI 10:1	1PC28912BB012AG3	3563	SA-7INV	19.0	295	
15	1200	286T	460	RGZESDI 10:1	1PC28912CC812AG3	5237	SA-7INV	20.0	450	
20	3600	284TS	460	RGZESDI 10:1	1PC28912DA512AG3	4977	SA-7INV	23.0	380	
20	1800	284T	460	RGZESDI 10:1	1PC28912CB712AG3	4143	SA-7INV	26.0	380	
20	1200	324T	460	RGZESDI 10:1	1PC28913BC712AG3	6379	SA-7INV	26.0	565	
25	3600	286TS	460	RGZESDI 10:1	1PC28912DA612AG3	5658	SA-7INV	29.0	450	
25	1800	286T	460	RGZESDI 10:1	1PC28912CB812AG3	5107	SA-7INV	29.0	450	
25	1200	326T	460	RGZESDI 10:1	1PC28913AC012AG3	7181	SA-7INV	33.0	600	
30	3600	324TS	460	RGZESDI 10:1	1PC28913BA512AG3	6629	SA-7INV	34.0	565	
30	1800	324T	460	RGZESDI 10:1	1PC28913BB712AG3	5775	SA-7INV	35.0	565	
30	1200	364T	460	RGZESDI 10:1	1PC28913DC712AG3	9304	SA-7INV	39.0	830	
40	3600	326TS	460	RGZESDI 10:1	1PC28913BA612AG3	7663	SA-7INV	45.0	600	
40	1800	326T	460	RGZESDI 10:1	1PC28913AB012AG3	7013	SA-7INV	47.0	600	
40	1200	365T	460	RGZESDI 10:1	1PC28913CC012AG3	10489	SA-7INV	52.0	850	
50	3600	364TS	460	RGZESDI 10:1	1PC28913DA512AG3	10426	SA-7INV	55.0	830	
50	1800	364T	460	RGZESDI 10:1	1PC28913DB712AG3	9537	SA-7INV	58.0	830	
50	1200	404T	460	RGZESDI 10:1	1PC28914AC712AG3	13455	SA-7INV	66.0	1100	

QuikMOD Delivery for stocked motors only.
Stock availability subject to change.
Prices and Specifications are subject to change without notice.

SIMOTICS Definite purpose motors

RGZESDI

10:1 Constant torque
Adjustable speed drive only

460V 60Hz - Foot mounted

HP	RPM	Frame	Voltage	Type	Part Number	List Price \$	Mult. Symb.	FL Amps	Lbs	Stock
60	3600	365TS	460	RGZESDI 10:1	1PC28913DA612AG3	12847	SA-7INV	68.0	850	
60	1800	365T	460	RGZESDI 10:1	1PC28913CB012AG3	11734	SA-7INV	71.0	850	
60	1200	405T	460	RGZESDI 10:1	1PC28914BC612AG3	15675	SA-7INV	74.0	1250	
75	3600	405TS	460	RGZESDI 10:1	1PC28914BA512AG3	17519	SA-7INV	85.0	1250	
75	1800	405T	460	RGZESDI 10:1	1PC28914BB612AG3	14632	SA-7INV	87.0	1250	
75	1200	444TS	460	RGZESDI 10:1	1PC28914PC112AG3	19367	SA-7INV	93.0	1620	
100	3600	444TS	460	RGZESDI 10:1	1PC28914PA112AG3	20794	SA-7INV	108.0	1620	
100	1800	444TS	460	RGZESDI 10:1	1PC28914PB112AG3	19024	SA-7INV	113.0	1620	
100	1200	445TS	460	RGZESDI 10:1	1PC28914PC212AG3	23320	SA-7INV	117.0	1740	
125	3600	445TS	460	RGZESDI 10:1	1PC28914PA212AG3	21784	SA-7INV	138.0	2740	
125	1800	445TS	460	RGZESDI 10:1	1PC28914PB212AG3	21785	SA-7INV	143.0	1740	
125	1200	447TS	460	RGZESDI 10:1	1PC28914PC312AG3	25850	SA-7INV	144.0	2000	
150	3600	447TS	460	RGZESDI 10:1	1PC28914PA312AG3	29883	SA-7INV	164.0	1740	
150	1800	447TS	460	RGZESDI 10:1	1PC28914PB312AG3	26054	SA-7INV	170.0	2000	
150	1200	449TS	460	RGZESDI 10:1	1PC28914PC412AG3	31185	SA-7INV	170.0	2300	
200	3600	449TS	460	RGZESDI 10:1	1PC28914PA412AG3	36924	SA-7INV	223.0	2300	
200	1800	449TS	460	RGZESDI 10:1	1PC28914PB412AG3	32170	SA-7INV	239.0	2300	
200	1200	449TS	460	RGZESDI 10:1	1PC28914PC512AG3	35542	SA-7INV	238.0	2300	
250	3600	449TS	460	RGZESDI 10:1	1PC28914PA512AG3	45337	SA-7INV	282.0	2300	
250	1800	449TS	460	RGZESDI 10:1	1PC28914PB512AG3	36469	SA-7INV	302.0	2300	
250	1200	S449SS	460	RGZESDI 10:1	1PC28914GC212AG3	60331	SA-7INV	296.0	3050	
300	3600	S449SS	460	RGZESDI 10:1	1PC28914GA212AG3	61695	SA-7INV	333.0	3063	
300	1800	S449SS	460	RGZESDI 10:1	1PC28914GB112AG3	52151	SA-7INV	356.0	3050	
350	3600	S449SS	460	RGZESDI 10:1	1PC28914GA112AG3	56329	SA-7INV	392.0	3050	
350	1800	S449SS	460	RGZESDI 10:1	1PC28914GB212AG3	58187	SA-7INV	406.0	3050	

QuikMOD Delivery for stocked motors only.
Stock availability subject to change.
Prices and Specifications are subject to change without notice.

- Introduction
- General Purpose Motors
- Severe Duty Motors
- Hazardous Duty Motors
- Definite Purpose Motors
- QuikMOD Detail
- Custom Options Detail
- Replacement Parts
- Typical Performance Data
- General Dimensions
- Part Number Index