

RPM III DC Shunt Wound SCR Drive Motors, 180V Armature Power Code K



1.5 thru 5 Hp

NEMA 189ATY thru 2112ATCZ

Applications: Metals, paper, web processes, extruders, cranes, conveyors, packaging, printing, machine tools.

Features: Unique laminated square frame for improved commutation on rectified power supplies. The square configuration allows for increased rating per frame size. Class F rated insulation system. Service Line brushes with convenient wear indicating reference lines. PLS™ (Positive Lubrication System) for longer bearing and motor life. F-3 mounting. Tach adaptable with thermostat.

Hp	Base Speed	NEMA Frame	Voltage D.C.		Full Load Amperage		Enclosure	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Reliance M/N	Field Type	XPY Tach Kit
			Arm.	Field	Arm.	Field (a)(b)								
1.5	1750	DC189ATY (c)	180	100/200	7.2	0.721	TENV	D1815R	3787	N2	130	T18R1119	STR	413336-1R
2	1750	DC189ATY (c)	180	100/200	9.5	0.72	TENV	D1802R	4549	N2	130	T18R1117	STR	413336-1R
3	1750	DC1811ATCZ (d)	180	100/200	14.1	1.21	TENV	CD1803R	5841	N2	185	T18R1102	STR	413336-1R
		DC189ATY (c)(e)	180	100/200	14.8	0.946	DPG	D1803R	3693	N2	130	T18R1118	STR	413336-1R
		DC189ATCZ (d)(e)	180	100/200	14.8	0.946	DPG	CDD1803R	3693	N2	130	T18R1120	STR	413336-1R
5	1750	DC1810ATCZ (d)(e)	180	100/200	24	1.67	DPG	CD1805R	5665	N2	155	T18R1105	STR	413336-1R
		DC2112ATCZ (d)	180	100/200	23	1.3	TENV	CD2105R	9712	N2	350	T21S1101	STR	413336-1R

(a) Field amps at 25°C

(b) Field amps for high voltage connection

(c) 140TC C-face

(d) 180TC C-face

(e) Top mounted conduit box, if blower added, blower must be mounted F-1 or F-2.

RPM III DC Shunt Wound SCR Drive Motors, 240V Armature 240V Field, Power Code C



3 thru 10 Hp

NEMA 1811ATCZ thru 2113ATCZ

Applications: Textile range drives, roofing machines, tube mills, and similar applications.

Features: Range drive motors have matched IR drops within approximately 5 volts and good regulation characteristics out to the maximum field weakened speed of 2300 rpm. Capable of operation at 25% base speed with 67% armature current and motor field pre-weakened to 2100 rpm. Specially designed for use on multi-motor drives operating on a common voltage power supply such as textile range drives, roofing machines, tube mills, etc. F-1 mounting. Tach adaptable with thermostat.

Hp	Base Speed	NEMA Frame	Voltage D.C.		Full Load Amperage		Enclosure	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Reliance M/N	Field Type	XPY Tach Kit
			Arm.	Field	Arm.	Field (a)								
3	1750/2300	C1811ATCZ (b)	240	240	11	0.994	SPG	CD2003R-2	4503	N2	180	T18R1009	STAB	413336-1R
5	1750/2300	C1811ATCZ (b)	240	240	18.1	1.11	SPG	CD2005R-2	6105	N2	180	T18R1010	STAB	413336-1R
7.5	1750/2300	C1812ATCZ (b)	240	240	27	1.4	SPG	CD2007R-2	7578	N2	215	T18R1011	STAB	413336-1R
10	1750/2300	SC2113ATCZ (c)	240	240	37	2.18	SPG	D2010R-2	8501	N2	325	T21S1001	STAB	417708-21

(a) Field amps at 25°C

(b) 180TC C-face

(c) 210TC C-face

HVAC Motors

Farm Duty Motors

Definite Purpose Motors

Brake Motors

200 & 575 Volt Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Start & Dynamic Brakes

RPM III DC Shunt Wound SCR Drive TEFC Motors, 240V & 500V Armature, Power Code C or D^(d)

5 thru 50 Hp

NEMA 1812ATZ thru 3212ATZ

Applications: Metals, paper, web processes, extruders, cranes, conveyors, packaging, printing, machine tools.

Features: Unique laminated square frame for improved commutation on rectified power supplies. The square configuration allows for increased rating per frame size. Class F rated insulation system. Service Line brushes with convenient wear indicating reference lines. PLS™ (Positive Lubrication System) for longer bearing and motor life. F-1 mounting unless otherwise specified. Tach adaptable with thermostat.

Hp	Base/Max Speed	NEMA Frame	Voltage D.C.		Full Load Amperage		Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Notes	Reliance M/N	Field Type	XPY Tach Kit
			Arm.	Field	Arm.	Field (a)(b)								
5	1750/2300	C1812ATZ	240	150	18.5	1.79	D2505R	7740	N2	235	87	T18R1005	STAB	417709-17
		SC2113ATZ	500	150/300	9	1.05	D5505R	7740	N2	315	87	T21S201 (c)(d)	STAB	417708.21
7.5	1750/2300	SC2113ATZ	240	150	27	3.26	D2507R	9372	N2	355	87	T21S301	STAB	417709-65
		SC2113ATZ	500	150/300	13.5	1.41	D5507R	9372	N2	355	87	T21S302	STAB	417709-65
10	1750/2300	MC2113ATZ	240	150	35.5	3.13	D2510R	10706	N2	380	87	T21S303	STAB	417709-65
		MC2113ATZ	500	150/300	17.5	1.55	D5510R	10706	N2	380	87	T21S304	STAB	417709-65
15	1750/2300	SC2512ATZ	240	150	53.5	2.17	D2515R	13828	N2	555	6.87	T25S301	STAB	417709-66
		SC2512ATZ	500	150/300	25.6	1.71	D5515R	13828	N2	555	87	T25S302	STAB	417709-66
20	1750/2300	LC2512ATZ	240	150	71	4.14	D2520R	15890	N2	630	87	T25S303	STAB	417709-66
		LC2512ATZ	500	150/300	33	2.05	D5520R	15890	N2	630	87	T25S304	STAB	417709-66
25	1750/2300	MC2812ATZ	240	150	87	4.05	D2525R	18615	N2	825	87	T28S301	STAB	417709-67
		MC2812ATZ	500	150/300	41	2.23	D5525R	18615	N2	825	86,87	T28S302	STAB	417709-67
30	1750/2300	LC2812ATZ	500	150/300	50	1.75	D5530R	20610	N2	900	87	T28S303	STAB	417709-67
40	1750/2300	MC3212ATZ	500	150/300	65	1.82	D5540R	26017	N2	1245	87	T32S301	STAB	417709-68
50	1750/2300	LC3212ATZ	500	150/300	84	1.97	D5550R	31324	N2	1325	87	T32S302	STAB	417709-68

(a) Field amps at 25°C

(b) Field amps for high voltage connection

(c) TENV enclosure

(d) Power Code C only

RPM III Wound Field SCR Drive DPG Motors, 240V & 500V Armature

3 thru 60 Hp

NEMA 189ATCZ thru 2812ATZ

Applications: Metals, paper, web processes, extruders, cranes, conveyors, packaging, printing, machine tools.

Features: Unique laminated square frame for improved commutation on rectified power supplies. The square configuration allows for increased rating per frame size. High limit thermostat. Provision for adding adapter mounted feedback device. Class F rated insulation system. Service Line brushes with convenient wear indicating reference lines. PLS™ (Positive Lubrication System) for longer bearing and motor life. F-1 mounting unless otherwise specified.



Hp	Base/Max Speed	NEMA Frame	Voltage D.C.		Full Load Amperage		Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Notes	Reliance M/N	Field Type	XPY Tach Kit
			Arm.	Field	Arm.	Field(a)(b)								
3	1750/2300	DC189ATCZ (c)(d)	240	150	11	1.52	D2003R	3714	N2	130	80,83	T18R1127	STAB	413336-1R
		C1811ATZ	500	300	5.2	0.741	D5003R	4379	N2	175	80	T18R1333	STR	413336-1R
5	1750/2300	C1811ATZ	240	150	19.2	1.77	D2005R	5438	N2	175	80,83	T18R1318	STAB	413336-1R
		C1811ATZ	500	300	9	1	D5005R	5438	N2	175	80	T18R1334	STR	413336-1R
7.5	1750/2300	C1811ATZ	240	150	28	1.95	D2007R	6571	N2	175	80,83	T18R1301	STAB	413336-1R
		C1811ATZ	500	300	13.5	1.29	D5007R	6571	N2	175	80	T18R1335	STR	413336-1R
10	1750/2300	C1812ATZ	240	150	37	2.12	D2010R	7494	N2	210	80,84	T18R1302	STAB	413336-1R
		C1812ATZ	500	300	17.4	1.08	D5010R	7494	N2	210	80,85	T18R1307	STAB	413336-1R
15	1750/2300	SC2113ATZ	240	150	56	4.12	D2015R	9024	N2	315	87	T21S1330	STAB	417708-21
		SC2113ATZ	500	150/300	27	1.76	D5015R	9024	N2	315	87	T21S1322	STAB	417708-21
20	1750/2300	LC2113ATZ	240	150	74	4.24	D2020R	10354	N2	370	87	T21S1331	STAB	417708-21
		MC2113ATZ	500	150/300	35	1.98	D5020R	10354	N2	340	87	T21S1323	STAB	417708-21
25	1750/2300	LC2113ATZ	240	150	91.5	5.82	D2025R	12793	N2	370	87	T21S1332	STAB	417708-21
		LC2113ATZ	500	150/300	43	2.61	D5025R	12793	N2	370	87	T21S1324	STAB	417708-21
30	1750/2300	SC2512ATZ	240	150	111	3.45	D2030R	14086	N2	505	87	T25S1330	STAB	417708-21
		SC2512ATZ	500	150/300	52	1.71	D5030R	14086	N2	505	87	T25S1322	STAB	417708-21
40	1750/2100	LC2512ATZ	500	150/300	68	2.4	D5040R	16578	N2	580	6,87	T25S1323	STAB	417708-21
50	1750/2100	MC2812ATZ	500	150/300	85	2.01	D5050R	18942	N2	775	6,87	T28S1313	STAB	417708-26
60	1750/2100	LC2812ATZ	500	300	100	2.77	D5060R	21689	N2	850	6,87	T28S1314	STAB	417708-26

(a) Field amps at 25°C

(b) Field amps for high voltage connection

(c) 180 TC C-face

(d) Top mounted conduit box, if blower added, blower must be mounted F-1 or F-2

RPM III DC Motor Encoder and Tachometer Kits

Applications: Encoder and Tachometer Kits for Field Installation
Features: Kits include the encoder or tachometer and all mounting hardware required for installation on RPM III DC Motors.

Device Type	Output	Catalog Number	Frames	Enclosure	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.
RD120-1	1 x 120 ppr	417708-30	DC180, C180, DC2112	DPG, DPV	2047	E8	6
		417708-32	C210-C250	DPG, DPV, TENV	2047	E8	6
		417708-33	C280-C400	DPG, DPV, TENV	2047	E8	6
		417708-153	C440	DPG, DPV, TENV	2047	E8	6
RD120-2	2 x 120 ppr	417708-34	DC180, C180, DC2112	DPG, DPV	2515	E8	6
		417708-36	C210-C250	DPG, DPV, TENV	2515	E8	6
		417708-37	C280-C400	DPG, DPV, TENV	2515	E8	6
		417708-154	C440	DPG, DPV, TENV	2515	E8	6
H20	1024 ppr	417708-133	DC180, C180, DC2112	DPG, DPV, TENV	2729	E8	6
		417708-134	C210-C250	DPG, DPV, TENV	2729	E8	6
		417708-135	C280-C400	DPG, DPV, TENV	2729	E8	6
		417708-151	C440	DPG, DPV, TENV	2729	E8	6
RL67	1024z ppr	417708-126	DC180, C180, DC2112	DPG, DPV, TENV	3581	E8	6
		417708-136	C210-C250	DPG, DPV, TENV	3581	E8	6
		417708-137	C280-C400	DPG, DPV, TENV	3581	E8	6
		417708-138	C440	DPG, DPV, TENV	3581	E8	6
RE045	45 VAC/ 1000 RPM	413327-W	DC180, C180, DC2112	DPG, DPV, TENV	2728	E8	6
		417708-20	C210-C250	DPG, DPV, TENV	2728	E8	6
		417708-25	C280-C400	DPG, DPV, TENV	2728	E8	6
		417708-152	C440	DPG, DPV, TENV	2728	E8	6

Encoder and Tachometer Mounting Kits (less tach)

Applications: Encoder and Tachometer mounting kits for field installation
Features: Kits include all mounting hardware required for installation on RPM III DC motors. Feedback device not included.

Device Type	Catalog Number	Frames	Enclosure	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.
XC42, XC46, BC42, BC46, H56, 800123-R & -S	413336-2R	DC180, C180, DC2112	DPG, DPV, TENV	904	E8	6
	417708-22	C210-C250	DPG, DPV, TENV	904	E8	6
	417708-27	C280-C400	DPG, DPV, TENV	904	E8	6
	417708-155	C440	DPG, DPV, TENV	904	E8	6
	417709-21	C180	TEFC	1808	E8	6
	417709-58	C210	TEFC	1808	E8	6
	417709-59	C250	TEFC	1808	E8	6
	417709-60	C280	TEFC	1808	E8	6
XPY, XPYII, 5PY, RPY444	417709-61	C320	TEFC	1808	E8	6
	413336-1R	DC180, C180, DC2112	DPG, DPV, TENV	904	E8	6
	417708-21	C210-C250	DPG, DPV, TENV	904	E8	6
	417708-26	C280-C400	DPG, DPV, TENV	904	E8	6
	417708-156	C440	DPG, DPV, TENV	904	E8	6
	417709-17	C180	TEFC	1808	E8	6
	417709-65	C210	TEFC	1808	E8	6
	417709-66	C250	TEFC	1808	E8	6
RL67	417709-67	C280	TEFC	1808	E8	6
	417709-68	C320	TEFC	1808	E8	6
	417708-40	DC180, C180, DC2112	DPG, DPV, TENV	171	E8	6
	417708-41	C210 - C250	DPG, DPV, TENV	171	E8	6
	417708-42	C280 - C400	DPG, DPV, TENV	171	E8	6
	417708-157	C440	DPG, DPV, TENV	214	E8	6

HVAC Motors

Farm Duty
MotorsDefinite Purpose
Motors

Brake Motors

200 & 575 Volt
MotorsIEC Frame
Motors50 Hertz
MotorsInverter/Vector
Motors & ControlsDC Motors
and ControlsSoft Start &
Dynamic Brakes