

NEMA BABA CERTIFIED 70901-7 ELECTRIC MOTORS

ABB SP4

INVERTER DUTY
NEMA Super Premium Motors

ABB BALDOR-RELIANCE® SP4™ MOTORS

NEMA Premium 4 efficient motors

ABB BALDOR RELIANCE

ENGINEERED TO OUTRUN

When it comes to electric motors, you trust in ABB. Leading the way in energy efficiency yet again, ABB Baldor-Reliance® SP4™ motors give you a shortcut in energy savings that makes a difference to your bottom line. These motors achieve NEMA Premium 4 efficiency across-the-line, independently of a drive. DOL or inverter duty, runs cooler, longer and quieter – now with a 48-month warranty.

ABB BALDOR-RELIANCE® SP4™ MOTORS

NEMA 4 PREMIUM

Revolutionizing the motor industry – again

Large install base
There are more than 300 million industrial electric motor-driven systems in operation worldwide

DOL motors still run the world
Roughly 80% of the world's electric motors operate DOL (direct on line) without a drive

Lower energy costs
NEMA Premium 4 (comparable to IEC's IE4 efficiency) can offer up to 40% lower energy loss in comparison with a NEMA standard efficient (IE2) induction motor

Rising cost of energy
- Electricity prices (KWh) continue to rise in all sectors and regions, making it more expensive to operate businesses
- Higher electricity prices directly impact operational expenses and increase production costs

Solving the problem
- Take the best and proven AC induction motor design and make it better by reducing motor losses by an average of 20% while maintaining simplicity of AC induction motors
- Simple drop-in design

Cooler running operation
- Able to achieve cooler running operation for longer life
- Achieve longer bearing life
- Expanded product features that include severe duty, pumping and HVAC applications.
- Industry-leading 4-year warranty



THE MAGIC IS INSIDE THE MOTOR

How to achieve higher efficiency

The idea is simple.
Take the best and proven AC induction design and make it better by reducing motor losses by an average of 20% while maintaining the simplicity of today's installed base of AC induction motors.

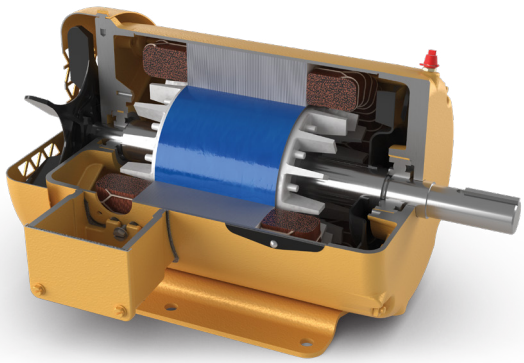


ABB Baldor-Reliance Super-E®
NEMA Premium Efficient (IE3)

AC induction motor
- Slip losses in rotor (I^2R)
- Heats bearings and motor
- Lower efficiency adds to heat generated

Higher rotor and stator losses



I^2R rotor Other I^2R stator

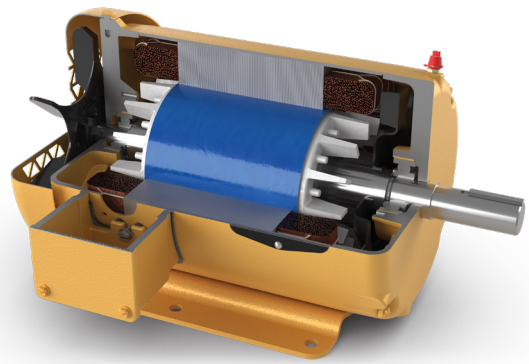


ABB Baldor-Reliance SP4
NEMA Premium 4 Efficient (IE4)

AC induction motor
- Longer stack (both stator and rotor) – less loss
- Runs cooler – less loss in bearing and motor
- Higher efficiency

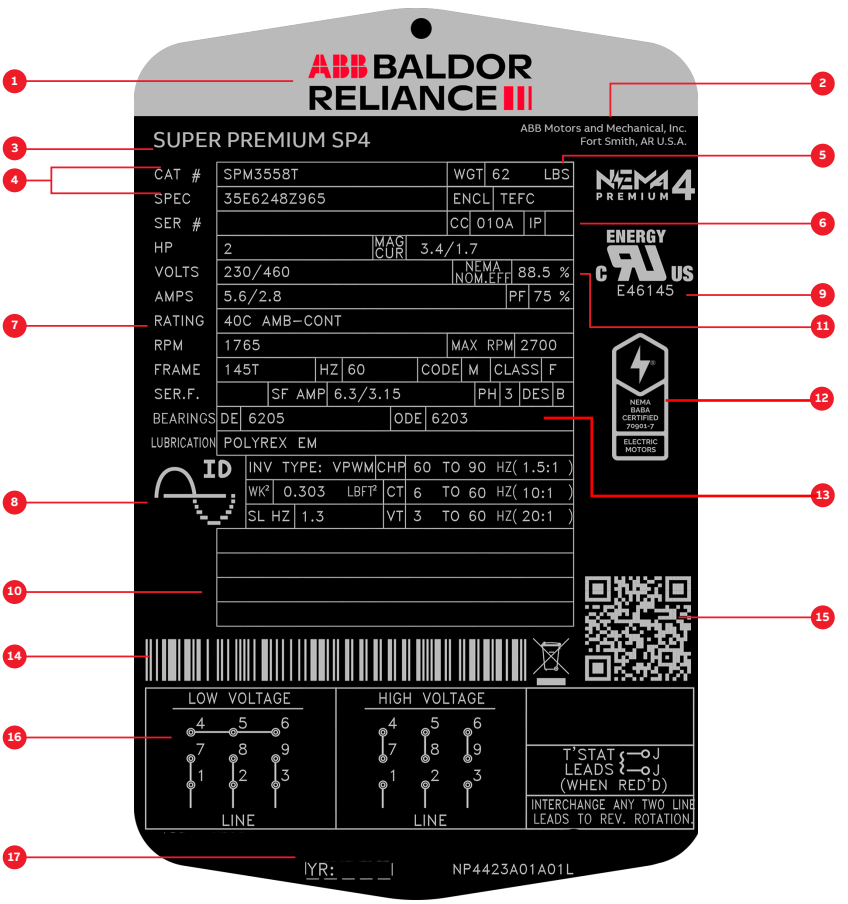
Lower rotor and stator losses



I^2R rotor Other I^2R stator

ABB BALDOR-RELIANCE SP4 MOTOR NAMEPLATES

New and improved

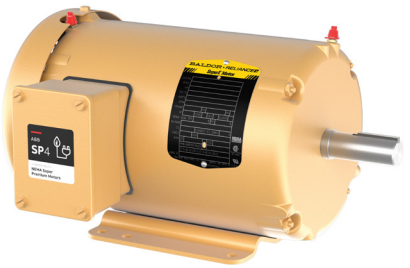


1 - ABB Baldor-Reliance logo
2 - Manufacturing location
3 - NEMA Super Premium
4 - Catalog & spec number
5 - Product weight
6 - IP protection class
7 - Rating data - Voltage, frequency, output, speed, current, power factory, duty cycle
8 - Inverter duty data
9 - Agency mark for fulfilling regulations
10 - Blank lines for customer information
11 - Efficiency
12 - NEMA Make-it-American 3rd party certified BABA compliant
13 - Bearing information
14 - Bar code for serial number information
15 - QR code to product landing page
16 - Connection diagram
17 - Manufacturing year

GENERAL PURPOSE

Three phase, totally enclosed, 230/460V

¼ - 20 Hp



Features

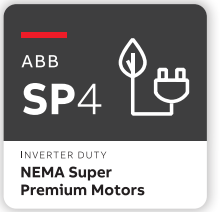
- 60 Hz designs
- 2,4,6 pole
- 1-20 Hp ratings
- Suitable for inverter use per NEMA MG1 Part 31.4.4.2 *
- Designed for longevity with a 4 year warranty on SP4 motors
- Cooler operation for longer lifespan

Applications

- Fans
- Pumps
- Blowers
- Conveyors
- Compressors
- Industrial machines
- Other general purpose applications

Hp	RPM	NEMA frame	Enclosure	Catalog number	List price	Disc. sym.	"C" dim.	Aprx. Wt. (lb)	Full load efficiency	Full load amps	Notes
1/4	1800	48	TEFC	SPM3454	558	GE4	10.72	24	74.0	0.40	1,2
		48	TENV	SPNM3454	585	GE4	9.63	24	74.0	0.40	1,2
	1200	48	TEFC	SPM3455	877	GE4	10.72	27	74.0	0.65	1,2
		48	TENV	SPNM3455	808	GE4	10.25	27	74.0	0.65	1,2
		56	TEFC	SPM3531	869	GE4	12.84	27	74.0	0.65	1,2
1/3	3600	48	TENV	SPM3457	567	GE4	9.63	24	74.0	0.50	1,2
	1800	48	TEFC	SPM3458	680	GE4	10.72	24	77.0	0.52	1,2
		56	TEFC	SPM3534	610	GE4	12.84	24	77.0	0.52	1,2
		56	TENV	SPNM3534	655	GE4	11.76	24	77.0	0.52	1,2
	1200	56	TEFC	SPM3535	977	GE4	12.84	27	75.5	0.70	1,2
1/2	3600	48	TEFC	SPM3460	657	GE4	10.72	27	77.0	0.80	1,2
		56	TEFC	SPM3537	657	GE4	12.84	27	77.0	0.80	1,2
	1800	48	TEFC	SPM3461	797	GE4	10.72	27	81.5	0.75	1,2
		56	TEFC	SPM3538	1,052	GE4	12.84	27	81.5	0.75	1,2
		56	TENV	SPNM3538	760	GE4	11.76	27	81.5	0.75	1,2
	1200	56	TEFC	SPM3539	1,052	GE4	13.72	42	78.5	1.00	1,2
		56	TENV	SPNM3539	1,155	GE4	12.64	42	78.5	1.00	1,2
3/4	3600	48	TEFC	SPM3463	724	GE4	11.34	30	80.0	1.00	1,2
		56	TEFC	SPM3541	724	GE4	12.84	30	80.0	1.00	1,2
	1800	48	TEFC	SPM3464	861	GE4	13.10	44	84.0	0.95	1,2
		56	TEFC	SPM3542	747	GE4	13.72	45	84.0	0.95	1,2
		56	TENV	SPNM3543	816	GE4	12.63	42	84.0	0.95	1,2
	1200	56	TEFC	SPM3543	1,074	GE4	12.91	41	82.5	1.40	1,2
		143T	TEFC	SPM3543T	1,074	GE4	13.29	41	82.5	1.40	1,2

Notes:
1) Class F insulated motor with 1.15 service factor or higher that operates within Class "B" temperature limits at rated horsepower.
2) Usable at 208 volts
* 48 frame Inverter Duty only available on low voltage input



Foot mounted continued

Hp	RPM	NEMA frame	Enclosure	Catalog number	List price	Disc. sym.	"C" dim.	Aprx. Wt. (lb)	Full load efficiency	Full load amps	Notes
1	3600	56	TEFC	SPM3545	1,151	GE4	12.91	35	82.5	1.30	1,2
	1800	56	TEFC	SPM3546	1,176	GE4	12.91	37	85.5	1.60	1,2
		56	TENV	SPNM3546	1,324	GE4	11.74	37	85.5	1.67	1,2
		143T	TEFC	SPM3546T	1,176	GE4	12.29	37	85.5	1.60	1,2
		143T	TENV	SPNM3546T	1,324	GE4	12.12	37	85.5	1.67	1,2
	1200	56	TEFC	SPM3556	1,518	GE4	13.78	47	84.0	1.66	1,2
		145T	TEFC	SPM3556T	1,518	GE4	14.19	47	84.0	1.66	1,2
1-1/2	3600	56	TEFC	SPM3550	1,303	GE4	12.91	38	85.5	2.05	1,2
		143T	TEFC	SPM3550T	1,303	GE4	12.29	38	85.5	2.05	1,2
	1800	56	TEFC	SPM3554	1,307	GE4	12.91	45	87.5	2.25	1,2
		145T	TEFC	SPM3554T	1,307	GE4	13.29	44	87.5	2.25	1,2
		145T	TENV	SPNM3554T	1,472	GE4	13.00	48	87.5	2.30	1,2
	1200	182T	TEFC	SPM3607T	1,776	GE4	18.04	90	88.5	2.50	1,2
2	3600	56	TEFC	SPM3555	1,427	GE4	13.78	50	86.5	2.40	1,2
		145T	TEFC	SPM3555T	1,427	GE4	14.19	50	86.5	2.40	1,2
	1800	145T	TEFC	SPM3558T	1,382	GE4	15.56	62	88.5	2.80	1,2
	1200	184T	TEFC	SPM3614T	1,862	GE4	18.48	100	89.5	3.30	1,2
3	3600	145T	TEFC	SPM3559T	1,563	GE4	16.55	81	88.5	3.40	1,2
		182T	TEFC	SPM3610T	1,583	GE4	16.55	81	88.5	3.40	1,2
	1800	182T	TEFC	SPM3611T	1,418	GE4	18.04	93	91.0	4.20	1,2
	1200	213T	TEFC	SPM3704T	2,421	GE4	19.02	127	90.2	4.50	1,2
5	3600	184T	TEFC	SPM3613T	1,755	GE4	18.04	94	89.5	5.50	1,2
	1800	184T	TEFC	SPM3615T	1,465	GE4	18.04	100	91.0	6.60	1,2
	1200	215T	TEFC	SPM3708T	2,736	GE4	20.52	149	90.2	7.40	1,2
7-1/2	3600	213T	TEFC	SPM3709T	2,629	GE4	17.89	121	90.2	9.00	1,2
	1800	213T	TEFC	SPM3710T	2,112	GE4	20.52	165	92.4	9.90	1,2
10	3600	215T	TEFC	SPM3711T	2,665	GE4	20.52	187	91.7	10.30	1,2
	1800	215T	TEFC	SPM3714T	2,385	GE4	20.52	187	92.4	12.60	1,2
15	3600	215T	TEFC	SPM3713T	3,761	GE4	20.52	187	92.4	17.00	1,2
	1800	254T	TEFC	SPM3910T	4,150	GE4	24.56	205	93.6	18.30	1,2
20	1800	256T	TEFC	SPM3914T	4,950	GE4	27.57	275	94.1	24.00	1,2

Notes:
1) Class F insulated motor with 1.15 service factor or higher that operates within Class "B" temperature limits at rated horsepower.
2) Usable at 208 volts

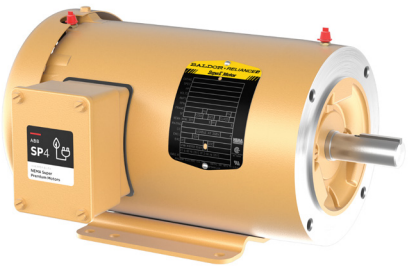


ABB SP4
INVERTER DUTY
NEMA Super Premium Motors

C face, foot mounted

Hp	RPM	NEMA frame	Enclosure	Catalog number	List price	Disc. sym.	"C" dim.	Aprx. Wt. (lb)	Full load efficiency	Full load amps	Notes
1/3	1800	56	TEFC	**CSPM3554**	651	GE4	12.84	24	77.0	0.52	1, 38
1/2	3600	56	TEFC	**CSPM3537**	699	GE4	12.84	27	77.0	0.80	1, 38
	1800	56	TEFC	**CSPM3538**	662	GE4	12.84	27	81.5	0.75	1, 38
		56	TENV	**CSPNM3538**	946	GE4	11.76	27	81.5	0.75	1, 38
	1200	56	TEFC	**CSPM3539**	1,095	GE4	13.72	42	78.5	1.00	1, 38
		56	TENV	**CSPNM3539**	1,172	GE4	12.64	42	78.5	1.00	1, 38
3/4	3600	56	TEFC	**CSPM3541**	765	GE4	12.84	30	80.0	1.00	1, 38
	1800	56	TEFC	**CSPM3542**	788	GE4	13.72	45	84.0	0.95	1, 38
		56	TENV	**CSPNM3542**	859	GE4	12.63	42	84.0	0.95	1, 2
	1200	56	TEFC	**CSPM3543**	1,117	GE4	12.91	41	82.5	1.40	1, 2
1	3600	56	TEFC	**CSPM3545**	1,197	GE4	12.91	35	82.5	1.30	1, 2
	1800	56	TEFC	**CSPM3546**	1,358	GE4	12.91	37	85.5	1.60	1, 2
		56	TENV	**CSPNM3546**	1,370	GE4	11.74	37	85.5	1.67	1, 2
		143T	TEFC	**CSPM3546T**	1,232	GE4	12.29	37	85.5	1.60	1, 2
	1200	56	TEFC	**CSPM3556**	1,564	GE4	13.78	47	84.0	1.66	1, 2
		145T	TEFC	**CSPM3556T**	1,581	GE4	14.19	47	84.0	1.66	1, 2
1 1/2	3600	56	TEFC	**CSPM3550**	1,350	GE4	12.91	38	85.5	2.05	1, 2
		143T	TEFC	**CSPM4550T**	1,366	GE4	12.29	38	85.5	2.05	1, 2
	1800	145T	TEFC	**CSPM3554T**	1,363	GE4	13.29	44	87.5	2.25	1, 2
	1200	184T	TEFC	**CSPM3607T**	1,894	GE4	18.04	90	88.5	2.50	1, 2
2	3600	56	TEFC	**CSPM3555**	1,473	GE4	13.78	50	86.5	2.40	1, 2
		145T	TEFC	**CSPM3555T**	1,490	GE4	14.19	62	86.5	2.40	1, 2
	1800	145T	TEFC	**CSPM3558T**	1,438	GE4	15.56	62	88.5	2.80	1, 2
	1200	184T	TEFC	**CSPM3614T**	1,980	GE4	18.48	100	89.5	3.30	1, 2
3	3600	182T	TEFC	**CSPM3610T**	1,702	GE4	16.55	81	88.5	3.40	1, 2
	1800	182T	TEFC	**CSPM3704T**	1,523	GE4	18.04	93	91.0	4.20	1, 2
	1200	215T	TEFC	**CSPM3708T**	2,650	GE4	19.02	127	90.2	4.50	1, 2
5	3600	184T	TEFC	**CSPM3613T**	1,874	GE4	16.55	94	89.5	5.50	1,2
	1800	184T	TEFC	**CSPM3615T**	1,570	GE4	18.04	100	91.0	6.60	1, 2
	1200	215T	TEFC	**CSPM3708T**	2,964	GE4	19.02	149	90.2	7.40	1, 2
7 1/2	3600	213T	TEFC	**CSPM3709T**	2,874	GE4	17.89	121	90.2	9.00	1, 2
	1800	213T	TEFC	**CSPM3710T**	2,316	GE4	20.52	165	92.4	9.90	1, 2
10	3600	215T	TEFC	**CSPM3711T**	2,894	GE4	20.52	187	91.7	103.00	1, 2
	1800	215T	TEFC	**CSPM3714T**	2,588	GE4	20.52	187	92.4	12.60	1, 2
15	3600	215T	TEFC	**CSPM3713T**	3,990	GE4	20.52	187	92.4	17.00	1, 2

Notes:
1) Class F insulated motor with 1.15 service factor or higher that operates within Class "B" temperature limits at rated horsepower.
2) Usable at 208 volts

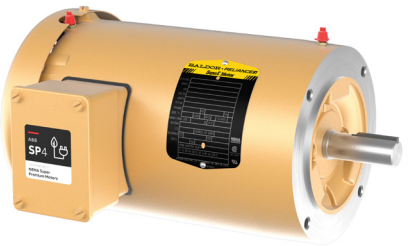


ABB SP4
INVERTER DUTY
NEMA Super Premium Motors

C face, footless

Hp	RPM	NEMA frame	Enclosure	Catalog number	List price	Disc. sym.	"C" dim.	Aprx. Wt. (lb)	Full load efficiency	Full load amps	Notes
1/4	1200	56	TEFC	VSPM3531	900	GE4	12.84	27	74.0	0.65	1,3
1/3	1800	56	TEFC	VSPM3534	636	GE4	12.84	24	77.0	0.52	1, 3
	1200	56	TEFC	VSPM3535	1,011	GE4	12.84	27	75.5	0.70	1, 3
1/2	3600	56	TEFC	VSPM3537	690	GE4	12.84	27	77.0	0.80	1, 3
	1800	56	TEFC	VSPM3538	649	GE4	12.84	27	81.5	0.75	1, 3
		56	TENV	VSPNM3538	794	GE4	11.76	27	81.5	0.75	1, 3
	1200	56	TEFC	VSPM3539	1,085	GE4	13.72	42	78.5	1.00	1, 3
2/3	3600	56	TEFC	VSPM3541	755	GE4	12.84	30	80.0	1.00	1, 3
	1800	56	TEFC	VSPM3542	773	GE4	13.72	45	84.0	0.95	1, 3
		56	TENV	VSPNM3542	816	GE4	12.63	42	84.0	0.95	1, 3
	1200	56	TEFC	VSPM3543	1,110	GE4	12.91	41	82.5	1.40	1, 2
		143T	TEFC	VSPM3543T	1,110	GE4	13.29	41	82.5	1.40	1, 2
1	3600	56	TEFC	VSPM3545	1,197	GE4	12.91	35	82.5	1.30	1, 2
	1800	56	TEFC	VSPM3546	1,217	GE4	12.91	37	85.5	1.60	1, 2
		56	TENV	VSPNM3546	1,370	GE4	11.74	37	85.5	1.66	1, 2
		143T	TEFC	VSPM3546T	1,232	GE4	12.29	37	85.5	1.60	1, 2
		143T	TENV	VSPNM3546T	1,387	GE4	12.12	37	85.5	1.67	1, 2
	1200	56	TEFC	VSPM3556	1,564	GE4	13.78	47	84.0	1.66	1, 2
		145T	TEFC	VSPM3556T	1,581	GE4	14.19	47	84.0	1.66	1, 2
1-1/2	3600	56	TEFC	VSPM3550	1,350	GE4	12.91	38	85.5	2.05	1, 2
		143T	TEFC	VSPM3550T	1,366	GE4	12.29	38	85.5	2.05	1, 2
	1800	56	TEFC	VSPM3554	1,348	GE4	12.91	45	87.5	2.25	1, 2
		145T	TEFC	VSPM3554T	1,363	GE4	13,29	44	87.5	2.25	1, 2
2	3600	56	TEFC	VSPM3555	1,473	GE4	13.78	50	86.5	2.40	1, 2
		145T	TEFC	VSPM3555T	1,490	GE4	14.19	50	86.5	2.40	1, 2
	1800	145T	TEFC	VSPM3558	1,438	GE4	15.56	62	88.5	2.80	1, 2
	1200	184T	TEFC	VSPM3614T	1,980	GE4	18.48	100	89.5	6.60	1, 2
3	3600	182T	TEFC	VSPM3610T	1,702	GE4	16.55	81	88.5	3.40	1, 2
	1800	182T	TEFC	VSPM3611T	1,523	GE4	18.04	93	91.0	4.20	1, 2
	1200	213T	TEFC	VSPM3704T	2,650	GE4	19.02	127	90.2	4.50	1, 2
5	3600	182T	TEFC	VSPM3613T	1,874	GE4	18.04	94	89.5	5.50	1, 2
	1800	184T	TEFC	VSPM3615T	1,570	GE4	18.04	100	91.0	6.60	1, 2
	1200	215T	TEFC	VSPM3708T	2,964	GE4	20.52	149	90.2	7.40	1, 2
7 1/2	3600	213T	TEFC	VSPM3709T	2,858	GE4	17.89	121	90.2	9.00	1, 2
	1800	213T	TEFC	VSPM3710T	2,586	GE4	20.52	165	92.4	10.30	1, 2
10	3600	215T	TEFC	VSPM3711T	2,894	GE4	20.52	187	91.7	10.30	1, 2
	1800	215T	TEFC	VSPM3714T	2,891	GE4	20.52	187	92.4	12.60	1, 2
15	3600	215T	TEFC	VSPM3713T	3,990	GE4	20.52	187	92.4	17.00	1, 2

Notes:
1) Class F insulated motor with 1.15 service factor or higher that operates within Class "B" temperature limits at rated horsepower.
2) Usable at 208 volts
3) Motor not suitable for inverter use

GENERAL PURPOSE

Three phase, open, 230/460V

¼ - 20 Hp

ABB SP4 INVERTER DUTY **NEMA Super Premium Motors**



Features

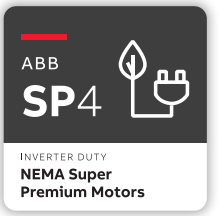
- 60 Hz designs
- 2,4,6 pole
- 1-20 Hp ratings
- Suitable for inverter use per NEMA MG1 Part 31.4.4.2 *
- Designed for longevity with a 4 year warranty on SP4 motors
- Cooler operation for longer lifespan

Applications

- Fans
- Pumps
- Blowers
- Conveyors
- Compressors
- Industrial machines
- Other general purpose applications

Hp	RPM	NEMA frame	Catalog number	List price	Disc. sym.	"C" dim.	Aprx. Wt. (lb)	Full load efficiency	Full load amps	Notes
1/4	1800	48	SPM30003	766	GO4	9.62	24	74.0	0.40	1,2
	1200	48	SPM30004	847	GO4	9.75	27	74.0	0.65	1,2
		56	SPM31101	847	GO4	11.75	27	74.0	0.65	1,2
1/3	3600	48	SPM30006	804	GO4	9.62	24	74.0	0.40	1,2
	1800	48	SPM30007	810	GO4	9.13	24	77.0	0.52	1,2
		56	SPM31104	810	GO4	11.75	24	77.0	0.52	1,2
	1200	48	SPM30008	886	GO4	9.75	27	75.5	0.70	1,2
		56	SPM31105	886	GO4	11.75	27	75.5	0.70	1,2
1/2	3600	48	SPM30009	865	GO4	10.25	27	77.0	0.80	1,2
		56	SPM31107	865	GO4	11.75	27	77.0	0.80	1,2
	1800	48	SPM30010	892	GO4	10.25	27	81.5	0.75	1,2
		56	SPM31108	892	GO4	11.75	27	81.5	0.75	1,2
	1200	48	SPM30011	974	GO4	11.51	42	78.5	1.00	1,2
		56	SPM31109	974	GO4	12.63	42	78.5	1.00	1,2
3/4	3600	48	SPM30012	861	GO4	10.63	30	80.0	1.00	1,2
		56	SPM31111	861	GO4	11.75	30	80.0	1.00	1,2
	1800	56	SPM31112	982	GO4	12.63	46	84.0	0.95	1,2
	1200	56	SPM31153	1,199	GO4	11.75	41	82.5	1.40	1,2
		143T	SPM3153T	1,052	GO4	12.13	41	82.5	1.40	1,2
1	3600	56	SPM31115	883	GO4	11.75	35	82.5	1.30	1,2
	1800	56	SPM31116	1,033	GO4	11.75	37	85.5	1.63	1,2
		143T	SPM3116T	1,133	GO4	11.12	37	85.5	1.20	1,2
	1200	56H	SPM31156	1,511	GO4	12.63	47	84.0	1.66	1,2
		145T	SPM3156T	1,305	GO4	13.00	47	84.0	1.66	1,2

Notes:
1) Class F insulated motor with 1.15 service factor or higher that operates within Class "B" temperature limits at rated horsepower.
2) Usable at 208 volts
* 48 frame Inverter Duty only available on low voltage input



Foot mounted continued

Hp	RPM	NEMA frame	Catalog number	List price	Disc. sym.	"C" dim.	Aprx. Wt. (lb)	Full load efficiency	Full load amps	Notes
1-1/2	3600	56	SPM31120	912	GO4	11.75	38	85.5	2.05	1,2
		143T	SPM3120T	1,099	GO4	11.12	38	85.5	2.05	1,2
	1800	56	SPM31154	1,133	GO4	11.75	45	87.5	2.25	1,2
		145T	SPM3154T	1,185	GO4	12.13	45	87.5	2.25	1,2
	1200	56H	SPM31159	1,454	GO4	16.49	90	88.5	2.50	1,2
		182T	SPM3207T	1,527	GO4	17.99	90	88.5	2.50	1,2
2	3600	56	SPM31155	1,027	GO4	11.75	43	86.5	2.50	1,2
		143T	SPM3155T	1,288	GO4	11.62	43	86.5	2.50	1,2
	1800	56H	SPM31157	1,188	GO4	14.00	56	88.5	2.70	1,2
		145T	SPM3157T	1,269	GO4	14.38	56	88.5	2.70	1,2
	1200	184T	SPM3215T	1,562	GO4	18.43	100	89.5	3.30	1,2
3	3600	56H	SPM31158	1,151	GO4	14	64	88.5	3.45	1,2
		145T	SPM3158T	1,305	GO4	14.38	64	88.5	3.45	1,2
	1800	182T	SPM3211T	1,368	GO4	17.99	92	91.0	4.00	1,2
	1200	213T	SPM3305T	1,987	GO4	17.45	127	90.2	4.50	1,2
5	3600	182T	SPM3212T	1,425	GO4	16.49	81	91.0	5.60	1,2
	1800	184T	SPM3218T	1,499	GO4	18.43	100	91.0	6.60	1,2
	1200	215T	SPM3309T	2,604	GO4	17.45	141	90.2	7.30	1,2
7-1/2	3600	184T	SPM3219T	2,260	GO4	17.99	36	90.2	8.40	1,2
	1800	213T	SPM3311T	2,201	GO4	18.20	158	92.4	9.500	1,2
	1200	254T	SPM2506T	3,122	GO4	23.19	248	91.7	11.00	1,2
10	3600	213T	SPM3312T	2,584	GO4	17.45	130	91.7	11.50	1,2
	1800	215T	SPM3313T	2,664	GO4	18.20	158	92.4	12.10	1,2
	1200	256T	SPM2511T	4,061	GO4	24.21	288	92.4	14.50	1,2
15	3600	215T	SPM3314T	3,670	GO4	18.95	187	92.4	17.00	1,2
	1800	254T	SPM2513T	3,771	GO4	24.21	290	93.6	18.30	1,2
20	3600	254T	SPM2514T	4,311	GO4	21.69	242	92.4	23.00	1,2
	1800	256T	SPM2515T	4,661	GO4	25.21	436	94.1	24.00	1,2

Notes:
1) Class F insulated motor with 1.15 service factor or higher that operates within Class "B" temperature limits at rated horsepower.
2) Usable at 208 volts



ABB SP4
INVERTER DUTY
NEMA Super Premium Motors

C face, foot mount

Hp	RPM	NEMA Frame	Catalog Number	List Price	Disc. sym.	"C" dim.	Aprx. Wt. (lb)	Full load efficiency	Full load amps	Notes
1/3	1800	56	CSPM31104	856	GO4	11.75	24	77.0	0.5	3
1/2	3600	56	CSPM31107	911	GO4	11.75	27	77.0	0.8	3
	1800	56	CSPM31108	939	GO4	11.75	27	81.5	0.8	3
3/4	1800	56	CSPM31112	1,028	GO4	12.63	46	84.0	1.0	2
1	3600	56	CSPM31115	1,091	GO4	11.75	35	82.5	1.3	2
	1800	143T	CSPM3116T	1,327	GO4	11.12	37	85.5	1.2	2
	1200	145T	CSPM3156T	1,368	GO4	13.00	47	84.0	1.7	2
1 1/2	3600	143T	CSPM3120T	1,161	GO4	11.12	38	85.5	2.1	2
	1800	145T	CSPM3154T	1,384	GO4	12.13	45	87.5	2.3	2
	1200	182T	CSPM3207T	1,646	GO4	17.99	90	88.5	2.5	2
2	3600	56	CSPM31155	1,238	GO4	11.75	43	86.5	2.5	2
	1800	145T	CSPM3157T	1,478	GO4	14.38	56	88.5	2.7	2
	1200	184T	CSPM3215T	1,680	GO4	18.43	100	89.5	3.3	2
3	3600	145T	CSPM3158T	1,368	GO4	14.38	64	88.5	3.5	2
	1800	182T	CSPM3211T	1,644	GO4	17.99	92	91.0	4.0	2
	1200	213T	CSPM3305T	2,254	GO4	17.45	127	90.2	4.5	2
5	3600	182T	CSPM3212T	1,544	GO4	16.49	81	91.0	5.6	2
	1800	184T	CSPM3218T	1,790	GO4	18.43	100	91.0	6.6	2
	1200	215T	CSPM3309T	2,871	GO4	17.45	141	90.2	7.3	2
7 1/2	3600	184T	CSPM3219T	2,379	GO4	17.99	36	90.2	8.4	2
	1800	213T	CSPM3311T	2,723	GO4	18.20	158	92.4	9.5	2
	1200	254T	CSPM2506T	3,657	GO4	23.19	248	91.7	11.0	2
10	3600	213T	CSPM3312T	2,851	GO4	17.45	130	91.7	11.5	2
	1800	215T	CSPM3313T	3,240	GO4	18.20	158	92.4	12.1	2
	1200	256T	CSPM2511T	4,597	GO4	24.21	288	92.4	14.5	2
15	3600	215T	CSPM3314T	3,937	GO4	18.95	187	92.4	17.0	2
	1800	254T	CSPM2513T	4,744	GO4	24.21	290	93.6	18.3	2
20	3600	254T	CSPM2514T	4,846	GO4	21.69	242	92.4	23.0	2
	1800	256T	CSPM2515T	5,197	GO4	25.21	436	94.1	24.0	2

Notes:
1) Class F insulated motor with 1.15 service factor or higher that operates within Class "B" temperature limits at rated horsepower.
2) Usable at 208 volts
3) Motor not usable for inverter use

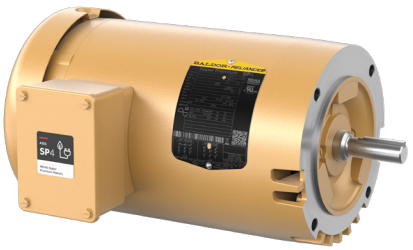


ABB SP4
INVERTER DUTY
NEMA Super Premium Motors

C face, footless

Hp	RPM	NEMA Frame	Catalog Number	List Price	Disc. sym.	"C" dim.	Aprx. Wt. (lb)	Full load efficiency	Full load amps	Notes
1/3	1800	56	VSPM31104	856	GO4	11.75	24	77.0	0.5	3
1/2	3600	56	VSPM31107	911	GO4	11.75	27	77.0	0.8	3
	1800	56	VSPM31108	939	GO4	11.75	27	81.5	0.8	3
	1200	56	VSPM31109	1,020	GO4	12.63	42	78.5	1.0	3
3/4	3600	56	VSPM31111	908	GO4	11.75	30	80.0	1.0	3
	1800	56	VSPM31112	1,028	GO4	12.63	46	84.0	1.0	2
	1200	56	VSPM31153	1,245	GO4	11.75	41	82.5	1.4	2
		143T	VSPM3153T	1,085	GO4	12.13	41	82.5	1.4	2
1	3600	56	VSPM31115	929	GO4	11.75	35	82.5	1.3	2
	1800	56	VSPM31116	1,080	GO4	11.75	37	85.5	1.6	2
		143T	VSPM3116T	1,327	GO4	11.12	37	85.5	1.2	2
	1200	145T	VSPM3156T	1,368	GO4	13.00	47	84.0	1.7	2
1 1/2	3600	56	VSPM31120	958	GO4	11.75	38	85.5	2.1	2
		143T	VSPM3120T	1,161	GO4	11.12	38	85.5	2.1	2
	1800	56	VSPM31154	1,179	GO4	11.75	45	87.5	2.3	2
		145T	VSPM3154T	1,384	GO4	12.13	45	87.5	2.3	2
2	3600	56	VSPM31155	1,238	GO4	11.75	43	86.5	2.5	2
		143T	VSPM3155T	1,351	GO4	11.62	43	86.5	2.5	2
	1800	56H	VSPM31157	1,234	GO4	14.00	56	88.5	2.7	2
		145T	VSPM3157T	1,325	GO4	14.38	56	88.5	2.7	2
	1200	184T	VSPM3215T	1,680	GO4	18.43	100	89.5	3.3	2
3	3600	56H	VSPM31158	1,197	GO4	14.00	64	88.5	3.5	2
		145T	VSPM3158T	1,368	GO4	14.38	64	88.5	3.5	2
	1800	182T	VSPM3211T	1,644	GO4	17.99	92	91.0	4.0	2
	1200	213T	VSPM3305T	2,254	GO4	17.45	127	90.2	4.5	2
5	3600	182T	VSPM3212T	1,544	GO4	16.49	81	91.0	5.6	2
	1800	184T	VSPM3218T	1,790	GO4	18.43	100	91.0	6.6	2
	1200	215T	VSPM3309T	2,871	GO4	17.45	141	90.2	7.3	2
7 1/2	3600	184T	VSPM3219T	2,379	GO4	17.99	36	90.2	8.4	2
	1800	213T	VSPM3311T	2,723	GO4	18.20	158	92.4	9.5	2
10	3600	213T	VSPM3312T	2,851	GO4	17.45	130	91.7	11.5	2
	1800	215T	VSPM3313T	3,240	GO4	18.20	158	92.4	12.1	2
15	3600	215T	VSPM3314T	3,937	GO4	18.95	187	92.4	17.0	2
	1800	254T	VSPM2513T	4,744	GO4	24.21	290	93.6	18.3	2
20	3600	254T	VSPM2514T	4,846	GO4	21.69	242	92.4	23.0	2
	1800	256T	VSPM2515T	5,197	GO4	25.21	436	94.1	24.0	2

Notes:
1) Class F insulated motor with 1.15 service factor or higher that operates within Class "B" temperature limits at rated horsepower.
2) Usable at 208 volts
3) Motor not usable for inverter use

SEVERE DUTY

Three phase, totally enclosed

25 - 300 Hp

ABB SP4 INVERTER DUTY NEMA Super Premium Motors



Features

- Robust cast iron TEFC construction
- IP55 ingress protection
- Regreasable bearings all frames
- 304 stainless steel nameplates
- Suitable for inverter use per NEMA MG1 Part 31.4.4.2
- Class I, Div 2 Groups A, B, C & D
- Class II, Div 2 Groups F & G
- NEMA Design B torques at Design A inrush
- Designed for longevity with a 4 year warranty on SP4 motors

Applications

- Grain handling
- Chemical, oil & gas
- Pulp & paper, forest products
- Metals & foundries
- Cement, aggregate & above ground mining
- Food processing
- Power generation
- Water & wastewater treatment

Hp	RPM	NEMA frame	Catalog number	List price	Disc. sym.	"C" dim.	Aprx. Wt. (lb)	Full load efficiency	Voltage	Full load amps
25	3600	284TS	SPM4107TS	7,017	SD4	26.75	396	93.0	230/460	28
	1800	284T	SPM4103T	6,600	SD4	28.00	490	94.5	230/460	29
	1200	324T	SPM4111T	10,355	SD4	30.71	680	94.1	230/460	31
30	3600	286TS	SPM4108TS	8,554	SD4	26.63	445	93.0	230/460	33
	1800	286T	SPM4104T	7,836	SD4	27.93	475	94.5	230/460	35
	1200	326T	SPM4117T	13,348	SD4	30.71	675	94.1	230/460	39
40	3600	324TS	SPM4109TS	11,751	SD4	29.13	451	93.6	230/460	45
	1800	324T	SPM4110T	10,253	SD4	30.71	720	95.0	230/460	46
	1200	364T	SPM4308T	16,314	SD4	33.48	990	95.0	230/460	45
50	3600	326TS	SPM4114TS	12,315	SD4	29.21	587	94.1	230/460	56
	1800	326T	SPM4115T	12,034	SD4	30.71	720	95.4	230/460	60
		326TS	SPM4115TS	12,034	SD4	29.21	720	95.4	230/460	60
	1200	365T	SPM4312T	19,317	SD4	33.48	928	95.0	230/460	55.1
60	3600	364TS	SPM4310TS	17,372	SD4	31.35	929	94.5	230/460	65.4
	1800	364T	SPM4314T	17,179	SD4	33.49	965	95.4	230/460	70
		364TS	SPM4314TS	17,179	SD4	31.35	933	95.4	230/460	70
	1200	404T	SPM4403T	24,206	SD4	38.19	1,281	95.4	230/460	72.4
75	3600	365TS	SPM4313TS	19,900	SD4	31.35	1,005	95.0	230/460	80.7
	1800	365T	SPM4316T	19,766	SD4	33.48	958	95.8	230/460	88
		365TS	SPM4316TS	19,766	SD4	31.35	958	95.8	230/460	88
	1200	405T	SPM4404T	29,458	SD4	38.2	1,275	95.4	230/460	90.8

Cast iron frame



Foot mounted continued

Hp	RPM	NEMA frame	Catalog number	List price	Disc. sym.	"C" dim.	Aprx. Wt. (lb)	Full load efficiency	Voltage	Full load amps
100	3600	405TS	SPM4402TS-4	25,111	SD4	35.19	1,272	96.2	460	113
	1800	405T	SPM4400T-4	24,738	SD4	38.19	1,296	96.2	460	115
		405TS	SPM4400TS-4	24,738	SD4	35.19	1,304	96.2	460	115
	1200	444T	SPM4409T-4	32,401	SD4	44.96	1,625	95.0	460	118
125	3600	444TS	SPM4412TS-4	29,507	SD4	41.08	1,539	95.0	460	137
	1800	444T	SPM4410T-4	29,246	SD4	44.96	1,950	96.2	460	142
		444TS	SPM4410TS-4	29,246	SD4	41.08	1,950	96.2	460	142
		444T	SPM4410TR-4	31,349	SD4	44.97	1,950	96.2	460	142
	1200	445T	SPM4411T-4	36,604	SD4	60.35	3,407	95.8	460	150
150	3600	445TS	SPM4413TS-4	34,593	SD4	44.58	2,017	96.2	460	164
	1800	447T	SPM4406T-4	34,060	SD4	48.46	2,184	96.2	460	170
		447T	SPM4406TR-4	36,365	SD4	44.97	2,184	96.5	460	170
		447TS	SPM4406TS-4	34,060	SD4	44.58	2,184	96.2	460	170
	1200	447T	SPM44156T-4	41,270	SD4	48.46	2,546	96.2	460	175
200	3600	447TS	SPM4416TS-4	40,961	SD4	44.58	2,330	95.4	460	216
	1800	447T	SPM4407T-4	41,215	SD4	53.47	2,545	96.5	460	224
		447T	SPM4407TR-4	43,316	SD4	53.47	2,621	96.5	460	224
		447TS	SPM4407TS-4	41,215	SD4	49.72	2,573	96.5	460	224
	1200	L449T	SPM44206T-4	52,301	SD4	60.35	3,282	96.2	460	229
250	3600	449TS	SPM44252TS-4	62,638	SD4	49.72	2,995	96.2	460	266
	1800	L449T	SPM4408T-4	52,301	SD4	60.35	3,389	96.5	460	280
		L449T	SPM4408TR-4	54,402	SD4	60.34	3,389	96.5	460	280
		L449TS	SPM4408TS-4	54,402	SD4	56.71	3,389	96.5	460	280
	1200	L449T	SPM44256T-4	75,415	SD4	60.34	3,683	96.2	460	293
300	3600	449TS	SPM44302TS-4	91,546	SD4	49.72	2,595	96.2	460	318
	1800	L449T	SPM44304T-4	72,086	SD4	60.35	3,598	96.8	460	342
		L449TS	SPM44304TS-4	72,086	SD4	56.71	3,598	96.8	460	342

Cast iron frame

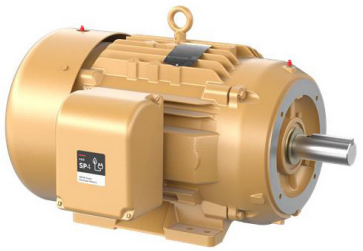


ABB SP4
INVERTER DUTY
NEMA Super Premium Motors

C face, foot mount

Hp	RPM	NEMA frame	Catalog number	List price	Disc. sym.	"C" dim.	Aprx. Wt. (lb)	Full load efficiency	Voltage	Amps
25	3600	284TS	CSPM4107T	8,340	SD4	26.75	396	93.0	230/460	28
	1800	284T	CSPM4103T	8,024	SD4	28.00	490	94.5	230/460	29
	1200	324T	CSPM4111T	11,780	SD4	30.71	680	94.1	230/460	31
30	3600	286TS	CSPM4108T	9,878	SD4	26.63	445	93.0	230/460	33
	1800	286T	CSPM4104T	9,261	SD4	27.93	475	94.5	230/460	35
	1200	326T	CSPM4117T	14,773	SD4	30.71	675	94.1	230/460	39
40	3600	324TS	CSPM4109T	13,279	SD4	29.13	451	93.6	230/460	45
	1800	324T	CSPM4110T	11,823	SD4	30.71	720	95.0	230/460	46
	1200	364T	CSPM4308T	17,977	SD4	33.48	990	95.0	230/460	45
50	3600	326TS	CSPM4114T	13,841	SD4	29.21	587	94.1	230/460	56
	1800	326T	CSPM4115T	13,605	SD4	30.71	720	95.4	230/460	60
	1200	365T	CSPM4312T	20,980	SD4	33.48	928	95.0	230/460	55.1
60	3600	364TS	CSPM4310T	19,035	SD4	31.35	929	94.5	230/460	65.4
	1800	364T	CSPM4314T	18,842	SD4	33.49	965	95.4	230/460	70
75	3600	365TS	CSPM4313T	21,563	SD4	31.35	1005	95.0	230/460	80.7
	1800	365T	CSPM4316T	21,429	SD4	33.48	958	95.8	230/460	88
100	3600	405TS	CSPM4402T-4	27,191	SD4	35.19	1272	96.2	460	113
	1800	405T	CSPM4400T-4	27,289	SD4	38.19	1296	96.2	460	115
125	1800	444T	CSPM4410T-4	32,778	SD4	44.96	1950	96.2	460	142
150	1800	447T	CSPM4406T-4	37,793	SD4	48.46	2184	96.2	460	170
200	1800	447T	CSPM4407T-4	45,463	SD4	53.47	2545	96.5	460	224

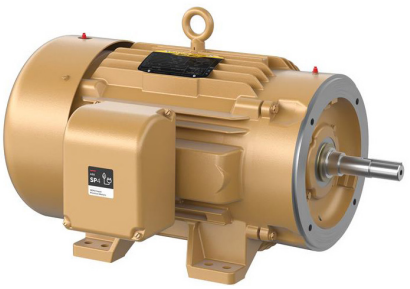
Cast iron frame

SEVERE DUTY CLOSE-COUPLED PUMP

Three phase, totally enclosed

25 - 50 Hp

ABB SP4 INVERTER DUTY NEMA Super Premium Motors



Features

- Robust cast iron TEFC construction
- Oversize ball bearings for the pump industry
- Locked DE bearing to allow mounting in any configuration
- 304 stainless steel nameplates
- Class I, Division 2 Groups A, B, C & D
- Class II, Division 2 Groups F & G
- Designed for longevity with a 4 year warranty on SP4 motors
- Suitable for inverter use per NEMA MG1 Part 31.4.4.2

Applications

- Cement
- Food and Beverage
- Industrial pumps
- Wastewater
- Agricultural
- General purpose pumps
- Aggregate

IP55

C-face foot mounted

Hp	RPM	NEMA Frame	Catalog Number	List Price	Disc Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps
Mechanical seal, Type JM										
230/460 volt										
25	3600	284JM	SPJMM4107T	8,141	PD4	28.88	396	93.0	230/460	28.0
	1800	2843M	SPJMM4103T	8,433	PD4	28.88	490	94.5	230/460	29.0
30	3600	286JM	SPJMM4108T	10,299	PD4	28.88	445	93.0	230/460	33.0
	1800	286JM	SPJMM4104T	10,972	PD4	28.88	490	94.5	230/460	35.0
40	3600	324JM	SPJMM4109T	12,170	PD4	30.88	451	93.6	230/460	45.0
	1800	324JM	SPJMM4110T	12,735	PD4	30.96	720	95.0	230/460	48.0
50	3600	326JM	SPJMM4114T	14,167	PD4	30.96	587	94.1	230/460	56.0
	1800	326JM	SPJMM4115T	14,364	PD4	30.96	720	95.4	230/460	58.0
Packed pump, Type JP										
230/460 volt										
25	3600	284JP	SPJPM4107T	8,141	PD4	31.75	396	93.0	230/460	28.0
	1800	284JP	SPJPM4103T	8,433	PD4	31.75	450	94.5	230/460	29.0
30	3600	286JP	SPJPM4108T	10,299	PD4	31.75	445	93.0	230/460	33.0
	1800	286JP	SPJPM4104T	10,972	PD4	31.75	490	94.5	230/460	35.0
40	3600	324JP	SPJPM4109T	12,170	PD4	33.75	451	93.6	230/460	45.0
	1800	324JP	SPJPM4110T	12,735	PD4	33.83	720	95.0	230/460	48.0
50	3600	326JP	SPJPM4114T	14,167	PD4	33.83	587	94.1	230/460	56.0
	1800	326JP	SPJPM4115T	14,364	PD4	33.83	720	95.4	230/460	58.0

Cast iron frame

Red catalog number indicates **NEW** product

CLOSE-COUPLED PUMP

Three phase, enclosed, with shaft grounding ring

1 - 10 Hp

ABB SP4 INVERTER DUTY NEMA Super Premium Motors

IP54



Features

- Internal shaft grounding ring for bearing current mitigation
- Class H insulation for increased protection with inverter use
- 60 Hz designs
- JM pump shaft
- Suitable for inverter use per NEMA MG1 Part 31.4.4.2
- Designed for longevity with a 4 year warranty on SP4 motors

Applications:

- Motor flange and shaft designed to support pump unit for direct mounting with Type JM pumps

Foot mounted, Mechanical seal, Type JM, with shaft grounding ring

Hp	RPM	NEMA Frame	Catalog Number	List Price	Disc Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps
1	1800	143JM	SPJMM3546T-G	1,655	PC4	15.41	37	85.5	230/460	1.7
1 1/2	3600	143JM	SPJMM3550T-G	1,646	PC4	15.41	38	85.5	230/460	2.1
	1800	145JM	SPJMM3554T-G	1,913	PC4	15.41	45	87.5	230/460	2.3
2	3600	145JM	SPJMM3555T-G	1,868	PC4	16.28	50	86.5	230/460	2.4
	1800	145JM	SPJMM3558T-G	1,998	PC4	17.66	62	88.5	230/460	2.8
3	3600	182JM	SPJMM3610T-G	2,076	PC4	18.06	81	88.5	230/460	3.4
	1800	182JM	SPJMM3611T-G	2,248	PC4	19.55	93	91.0	230/460	4.2
5	3600	184JM	SPJMM3613T-G	2,393	PC4	19.55	94	89.5	230/460	5.5
	1800	184JM	SPJMM3615T-G	2,253	PC4	19.99	101	91.0	230/460	6.6
7.5	3600	213JM	SPJMM3709T-G	3,114	PC4	19.76	121	90.2	230/460	9.0
	1800	213JM	SPJMM3710T-G	3,328	PC4	22.38	165	92.4	230/460	9.9
10	3600	215JM	SPJMM3711T-G	3,505	PC4	22.38	187	91.7	230/460	10.3
	1800	215JM	SPJMM3714T-G	3,828	PC4	22.38	187	92.4	230/460	13.0

CLOSE-COUPLED PUMP

Three phase, open, with shaft grounding ring

1 - 20 Hp

ABB SP4 INVERTER DUTY NEMA Super Premium Motors

IP23



Features

- Internal shaft grounding ring for bearing current mitigation
- Class H insulation for increased protection with inverter use
- 60 Hz designs
- JM pump shaft
- Suitable for inverter use per NEMA MG1 Part 31.4.4.2
- Designed for longevity with a 4 year warranty on SP4 motors

Applications:

- Motor flange and shaft designed to support pump unit for direct mounting with Type JM pumps

Foot mounted, Mechanical seal, Type JM, with shaft grounding ring

Hp	RPM	NEMA Frame	Catalog Number	List Price	Disc Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps
1	1800	143JM	SPJMM3116T-G	1,567	PC4	13.75	37	85.5	230/460	1.6
1 1/2	1800	145JM	SPJMM3154T-G	1,671	PC4	14.25	45	87.5	230/460	2.3
2	1800	145JM	SPJMM3157T-G	1,801	PC4	16.50	56	88.5	230/460	2.7
3	3600	145JM	SPJMM3158T-G	2,003	PC4	16.50	64	88.5	230/460	3.5
	1800	182JM	SPJMM3211T-G	2,035	PC4	18.00	92	91.0	230/460	4.0
5	3600	182JM	SPJMM3212T-G	2,406	PC4	16.50	81	91.0	230/460	5.6
	1800	184JM	SPJMM3218T-G	2,253	PC4	18.44	101	91.0	230/460	6.6
7 1/2	3600	184JM	SPJMM3219T-G	2,775	PC4	18.00	96	90.2	230/460	8.4
	1800	213JM	SPJMM3311T-G	3,286	PC4	20.07	158	92.4	230/460	10.0
10	3600	213JM	SPJMM3312T-G	3,561	PC4	19.32	130	91.7	230/460	11.5
	1800	215JM	SPJMM3313T-G	3,516	PC4	20.07	158	92.4	230/460	12.1
15	1800	254JM	SPJMM2513T-G	5,033	PC4	24.69	289	93.6	230/460	18.3
	3600	215JM	SPJMM3314T-G	4,449	PC4	20.82	187	92.4	230/460	17.0
20	3600	254JM	SPJMM2514T-G	5,465	PC4	23.19	242	92.4	230/460	23.0
	1800	256JM	SPJMM2515T-G	5,851	PC4	26.69	404	94.1	230/460	24.0

CLOSE-COUPLED PUMP

Three phase, totally enclosed

1 - 15 Hp

ABB SP4
INVERTER DUTY
NEMA Super Premium Motors



IP54

Features

- 60 Hz designs
- JM and JP pump shaft
- Suitable for inverter use per NEMA MG1 Part 31.4.4.2
- Designed for longevity with a 4 year warranty on SP4 motors

Applications:

- Motor flange and shaft designed to support pump unit for direct mounting with Type JM and JP pumps

Foot mounted, Mechanical seal, Type JM

Hp	RPM	NEMA Frame	Catalog Number	List Price	Disc Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps
1	1800	143JM	SPJMM3546T	1,362	PC4	15.41	37	85.5	230/460	1.6
1 1/2	3600	143JM	SPJMM3550T	1,354	PC4	15.41	38	85.5	230/460	2.1
	1800	145JM	SPJMM3554T	1,451	PC4	15.41	45	87.5	230/460	2.3
2	3600	145JM	SPJMM3555T	1,558	PC4	16.28	50	86.5	230/460	2.4
	1800	145JM	SPJMM3558T	1,755	PC4	17.66	62	88.5	230/460	2.8
3	3600	182JM	SPJMM3610T	1,992	PC4	18.06	81	88.5	230/460	3.4
	1800	182JM	SPJMM3611T	1,887	PC4	19.55	93	91.0	230/460	4.2
5	3600	184JM	SPJMM3613T	2,032	PC4	19.55	94	89.5	230/460	5.5
	1800	184JM	SPJMM3615T	1,724	PC4	19.99	101	91.0	230/460	6.6
7 1/2	3600	213JM	SPJMM3709T	2,427	PC4	19.76	121	90.2	230/460	9.0
	1800	213JM	SPJMM3710T	2,733	PC4	22.38	165	92.4	230/460	9.9
10	3600	215JM	SPJMM3711T	2,995	PC4	22.38	187	91.7	230/460	10.3
	1800	215JM	SPJMM3714T	3,083	PC4	22.38	187	92.4	230/460	13.0
15	3600	215JM	SPJMM3713T	4,197	PC4	22.38	187	92.4	230/460	17.0

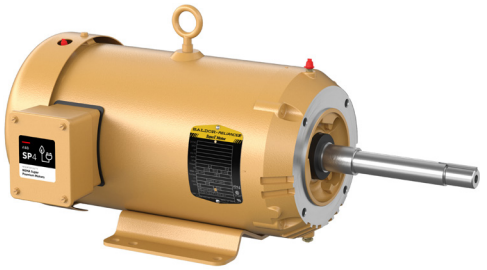


ABB SP4
INVERTER DUTY
NEMA Super Premium Motors

Foot mounted, Mechanical seal, Type JP

Hp	RPM	NEMA Frame	Catalog Number	List Price	Disc Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps
1 1/2	1800	145JP	SPJPM3554T	1,743	PC4	18.47	45	87.5	230/460	2.3
2	3600	145JP	SPJPM3555T	1,698	PC4	19.35	50	86.5	230/460	2.4
	1800	145JP	SPJPM3558T	1,827	PC4	20.72	62	88.5	230/460	2.8
3	3600	182JP	SPJPM3610T	2,043	PC4	21.11	81	88.5	230/460	3.4
	1800	182JP	SPJPM3611T	2,057	PC4	22.61	93	91.0	230/460	4.2
5	3600	184JP	SPJPM3613T	2,215	PC4	22.61	94	89.5	230/460	5.5
	1800	184JP	SPJPM3615T	2,109	PC4	23.05	101	91.0	230/460	6.6
7.5	3600	213JP	SPJPM3709T	3,229	PC4	23.64	121	90.2	230/460	9.0
	1800	213JP	SPJPM3710T	2,979	PC4	26.26	165	92.4	230/460	9.9
10	3600	215JP	SPJPM3711T	3,265	PC4	26.26	187	91.7	230/460	10.3
	1800	215JP	SPJPM3714T	3,360	PC4	26.26	187	92.4	230/460	13.0
15	3600	215JP	SPJPM3713T	4,360	PC4	26.26	187	92.4	230/460	17.0



Footless Mechanical seal, Type JM

Hp	RPM	NEMA Frame	Catalog Number	List Price	Disc Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps
1	1800	143JM	VSPJMM3546T	1,240	PC4	14.41	37	85.5	230/460	1.6
1 1/2	1800	145JM	VSPJMM3554T	1,308	PC4	15.41	45	87.5	230/460	2.3
2	1800	145JM	VSPJMM3558T	1,567	PC4	17.66	62	88.5	230/460	2.8
3	1800	182JM	VSPJMM3611T	1,788	PC4	19.55	93	91.0	230/460	4.2
5	1800	184JM	VSPJMM3615T	2,109	PC4	19.99	101	91.0	230/460	6.6
7 1/2	3600	213JM	VSPJMM3709T	3,229	PC4	19.76	121	90.2	230/460	9.0
	1800	213JM	VSPJMM3710T	3,019	PC4	22.38	165	92.4	230/460	9.9
10	1800	215JM	VSPJMM3714T	3,497	PC4	22.38	187	92.4	230/460	13.0

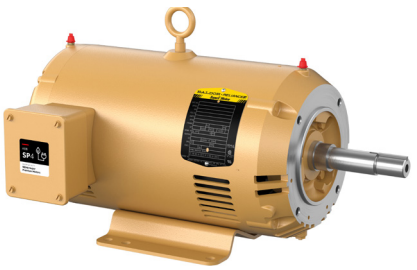
CLOSE-COUPLED PUMP

Three phase, open

1 - 20 Hp

ABB SP4
INVERTER DUTY
NEMA Super Premium Motors

IP23



Features

- 60 Hz designs
- JM and JP pump shaft
- Suitable for inverter use per NEMA MG1 Part 31.4.4.2
- Designed for longevity with a 4 year warranty on SP4 motors

Applications:

- Motor flange and shaft designed to support pump unit for direct mounting with Type JM and JP pumps

Foot mounted, Mechanical seal, Type JM

Hp	RPM	NEMA Frame	Catalog Number	List Price	Disc Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps
1	1800	143JM	SPJMM3116T	1,304	PC4	13.75	37	85.5	230/460	1.6
1 1/2	3600	143JM	SPJMM3120T	1,369	PC4	13.75	38	85.5	230/460	2.1
	1800	145JM	SPJMM3154T	1,411	PC4	14.25	45	87.5	230/460	2.3
2	3600	143JM	SPJMM3155T	1,560	PC4	13.75	43	86.5	230/460	2.5
	1800	145JM	SPJMM3157T	1,502	PC4	16.50	56	88.5	230/460	2.7
3	3600	145JM	SPJMM3158T	1,705	PC4	16.50	64	88.5	230/460	3.5
	1800	182JM	SPJMM3211T	1,708	PC4	18.00	92	91.0	230/460	4.0
5	3600	182JM	SPJMM3212T	1,885	PC4	16.50	81	91.0	230/460	5.6
	1800	184JM	SPJMM3218T	1,879	PC4	18.44	101	91.0	230/460	6.6
	1200	215JM	SPJMM3309T	3,204	PC4	19.32	141	90.2	230/460	7.3
7.5	3600	184JM	SPJMM3219T	2,702	PC4	18.00	96	90.2	208-230/460	8.4
	1800	213JM	SPJMM3311T	2,789	PC4	20.07	158	92.4	230/460	10.0
	1200	254JM	SPJMM2506T	4,403	PC4	24.69	248	91.7	230/460	11.0
10	3600	213JM	SPJMM3312T	3,184	PC4	19.32	130	91.7	208-230/460	11.5
	1200	254JM	SPJMM2511T	5,343	PC4	25.69	288	92.4	230/460	14.5
	1800	215JM	SPJMM3313T	3,048	PC4	20.07	158	92.4	230/460	12.1
15	3600	215JM	SPJMM3314T	4,270	PC4	20.82	187	92.4	230/460	17.0
	1800	254JM	SPJMM2513T	4,631	PC4	24.69	289	93.6	230/460	18.3
20	3600	254JM	SPJMM2514T	5,013	PC4	23.19	242	92.4	230/460	23.0
	1800	256JM	SPJMM2515T	5,399	PC4	26.69	404	94.1	230/460	24.0

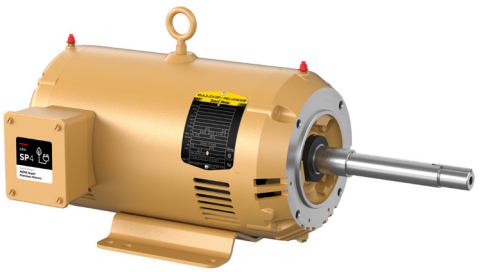
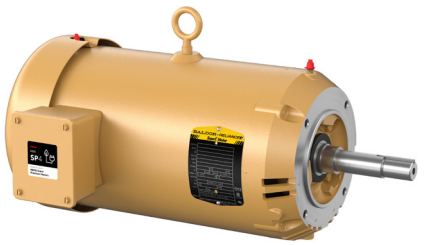


ABB SP4
INVERTER DUTY
NEMA Super Premium Motors

Foot mounted, Mechanical seal, Type JP

Hp	RPM	NEMA Frame	Catalog Number	List Price	Disc Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps
1	1800	143JP	SPJPM3116T	1,547	PC4	16.81	37	85.5	230/460	1.6
1 1/2	1800	145JP	SPJPM3154T	1,604	PC4	17.32	45	87.5	230/460	2.3
2	1800	145JP	SPJPM3157T	1,699	PC4	19.57	56	88.5	230/460	2.7
3	3600	145JP	SPJPM3158T	1,705	PC4	19.57	64	88.5	230/460	3.5
	1800	182JP	SPJPM3211T	1,999	PC4	21.06	92	91.0	230/460	4.0
5	3600	182JP	SPJPM3212T	1,885	PC4	19.56	81	91.0	230/460	5.6
	1800	184JP	SPJPM3218T	2,146	PC4	21.50	101	91.0	230/460	6.6
7 1/2	3600	184JP	SPJPM3219T	2,720	PC4	21.06	96	90.2	230/460	8.4
	1800	213JP	SPJPM3311T	3,078	PC4	23.94	158	92.4	230/460	10.0
10	3600	213JP	SPJPM3312T	3,184	PC4	23.19	130	91.7	230/460	11.5
	1800	215JP	SPJPM3313T	3,132	PC4	23.94	158	92.4	230/460	12.1
15	3600	215JP	SPJPM3314T	4,270	PC4	24.69	187	92.4	230/460	17.0
	1800	254JP	SPJPM2513T	4,507	PC4	27.56	289	93.6	230/460	18.3
20	3600	254JP	SPJPM2514T	5,013	PC4	26.06	242	92.4	230/460	23.0
	1800	256JP	SPJPM2515T	5,399	PC4	29.56	404	94.1	230/460	24.0



Footless, Mechanical seal, Type JM

Hp	RPM	NEMA Frame	Catalog Number	List Price	Disc Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps
1	1800	143JM	VSPJMM3116T	1,304	PC4	14.51	37	85.5	230/460	1.6
1 1/2	1800	145JM	VSPJMM3154T	1,373	PC4	15.51	45	87.5	230/460	2.3
2	1800	145JM	VSPJMM3157T	1,502	PC4	17.66	56	88.5	230/460	2.7
3	3600	145JM	VSPJMM3158T	1,705	PC4	17.66	64	88.5	230/460	3.5
	1800	182JM	VSPJMM3211T	1,662	PC4	19.55	92	91.0	230/460	4.0
5	3600	182JM	VSPJMM3212T	1,185	PC4	18.05	81	91.0	230/460	5.6
	1800	184JM	VSPJMM3218T	1,879	PC4	19.98	101	91.0	230/460	6.6
7 1/2	3600	184JM	VSPJMM3219T	2,720	PC4	19.55	96	90.2	230/460	8.4
	1800	213JM	VSPJMM3311T	2,789	PC4	21.59	158	92.4	230/460	10.0
10	3600	213JM	VSPJMM3312T	3,184	PC4	20.84	130	91.7	230/460	11.5
	1800	215JM	VSPJMM3313T	3,048	PC4	21.59	158	92.4	230/460	12.1
15	3600	215JM	VSPJMM3314T	4,270	PC4	22.34	187	92.4	230/460	17.0

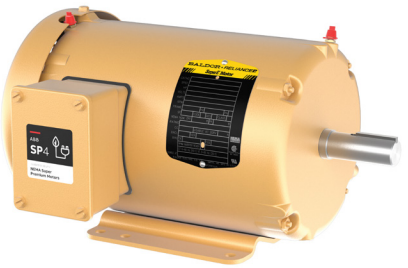
HVAC

Three phase, totally enclosed, with internal shaft grounding ring

1 - 10 Hp

ABB SP4
INVERTER DUTY
NEMA Super Premium Motors

IP54



Features

- Internal grounding ring for bearing current mitigation
- Class H insulation for increased protection on inverter use
- 60 Hz designs
- Suitable for inverter use per NEMA MG1 Part 31.4.4.2
- Suitable for 208 volt
- Designed for longevity with a 4 year warranty on SP4 motors

Applications

- Fans
- Pumps
- Blowers
- Unit handling
- HVACR systems
- Variable speed applications
- Other general purpose applications

Foot mounted, with internal shaft grounding ring

Hp	RPM	NEMA Frame	Catalog Number	List Price	Disc Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps
	3600	56H	SPM3545-G	1,428	HV4	12.91	35	82.5	230/460	1.3
1	1800	143T	SPM3546T-G	1,565	HV4	12.29	37	85.5	230/460	1.6
	1200	145T	SPM3556T-G	1,815	HV4	14.19	47	84.0	230/460	1.7
	3600	143T	SPM3550T-G	1,601	HV4	12.29	38	85.5	230/460	2.1
1 1/2	1800	145T	SPM3554T-G	1,615	HV4	13.29	45	87.5	230/460	2.3
	1200	182T	SPM3607T-G	2,128	HV4	18.04	90	88.5	230/460	2.5
	3600	143T	SPM3555T-G	1,724	HV4	14.19	50	86.5	230/460	2.4
2	1800	145T	SPM3558T-G	1,663	HV4	15.56	62	88.5	230/460	2.8
	1200	184T	SPM3614T-G	2,214	HV4	18.48	101	89.5	230/460	3.3
	3600	182T	SPM3610T-G	1,936	HV4	16.55	81	88.5	230/460	3.4
3	1800	182T	SPM3611T-G	1,861	HV4	18.04	93	91.0	230/460	4.2
	1200	213T	SPM3704T-G	2,817	HV4	19.02	127	90.2	230/460	4.5
	3600	184T	SPM3613T-G	2,109	HV4	18.04	94	89.5	230/460	5.5
5	1800	184T	SPM3615T-G	2,003	HV4	18.48	101	91.0	230/460	6.6
	1200	215T	SPM3708T-G	3,131	HV4	20.52	149	90.2	230/460	7.4
7 1/2	3600	213T	SPM3709T-G	3,025	HV4	17.89	121	90.2	230/460	9
	1800	213T	SPM3710T-G	2,776	HV4	20.52	165	92.4	230/460	9.9
10	3600	215T	SPM3711T-G	3,061	HV4	20.52	187	91.7	230/460	10.3
	1800	215T	SPM3714T-G	3,083	HV4	20.52	187	92.4	230/460	13

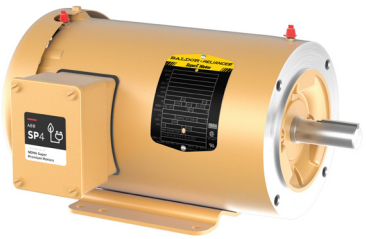


ABB SP4
INVERTER DUTY
NEMA Super Premium Motors

C-face foot mounted, with internal shaft grounding ring

Hp	RPM	NEMA Frame	Catalog Number	List Price	Disc Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps
	3600	56HC	CSPM3545-G	1,611	HV4	12.91	35	82.5	230/460	1.3
1	1800	143TC	CSPM3546T-G	1,840	HV4	12.29	37	85.5	230/460	1.6
	1200	145TC	CSPM3556T-G	2,064	HV4	14.19	47	84.0	230/460	1.7
	3600	143TC	CSPM3550T-G	1,820	HV4	13.29	38	85.5	230/460	2.1
1 1/2	1800	145TC	CSPM3554T-G	1,999	HV4	13.29	45	87.5	230/460	2.3
	1200	182TC	CSPM3607T-G	2,438	HV4	18.04	90	88.5	230/460	2.5
	3600	145TC	CSPM3555T-G	1,962	HV4	14.19	50	86.5	230/460	2.4
2	1800	145TC	CSPM3558T-G	2,093	HV4	14.16	62	88.5	230/460	2.8
	1200	184TC	CSPM3614T-G	2,535	HV4	18.48	101	89.5	230/460	3.3
	3600	182TC	CSPM3610T-G	2,579	HV4	16.55	81	88.5	230/460	3.4
3	1800	182TC	CSPM3611T-G	2,228	HV4	18.04	93	91.0	230/460	4.2
	1200	213TC	CSPM3704T-G	3,305	HV4	19.75	127	90.2	230/460	4.5
	3600	184TC	CSPM3613T-G	2,415	HV4	18.04	94	89.5	230/460	5.5
5	1800	184TC	CSPM3615T-G	2,294	HV4	18.48	101	91.0	230/460	6.6
	1200	215TC	CSPM3708T-G	3,662	HV4	21.25	149	90.2	230/460	7.4
7 1/2	3600	213TC	CSPM3709T-G	3,541	HV4	18.63	121	90.2	230/460	9.0
	1800	213TC	CSPM3710T-G	3,257	HV4	21.25	165	92.4	230/460	9.9
10	3600	215TC	CSPM3711T-G	3,582	HV4	21.25	187	91.7	230/460	10.3
	1800	215TC	CSPM3714T-G	3,607	HV4	21.25	187	92.4	230/460	13.0

HVAC

Three phase, open, with internal shaft grounding ring

1 - 20 Hp

ABB SP4 INVERTER DUTY NEMA Super Premium Motors

IP22



Features

- Internal shaft grounding ring for bearing current mitigation
- Class H insulation for increased protection on inverter use
- 60 Hz designs
- Suitable for inverter use per NEMA MG1 part 31.4.4.2
- Cooler operation for longer lifespan
- Suitable for 208 volt
- Designed for longevity with a 4 year warranty on SP4 motors

Applications

- Fans
- Pumps
- Blowers
- Unit handling
- HVACR systems
- Variable speed applications
- Other general purpose applications

Foot mounted, with internal shaft grounding ring

Hp	RPM	NEMA Frame	Catalog Number	List Price	Disc. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps
1	3600	56H	SPM31115-G	1,262	HV4	11.75	35	82.5	230/460	1.3
	1800	143T	SPM3116T-G	1,573	HV4	11.12	37	85.5	230/460	1.6
	1200	145T	SPM3156T-G	1,602	HV4	13.00	47	84.0	230/460	1.7
1 1/2	3600	143T	SPM3120T-G	1,396	HV4	11.12	38	85.5	230/460	2.1
	1800	145T	SPM3154T-G	1,631	HV4	12.13	45	87.5	230/460	2.3
2	3600	143T	SPM3155T-G	1,587	HV4	11.62	43	86.5	230/460	2.5
	1800	145T	SPM3157T-G	1,726	HV4	14.38	56	88.5	230/460	2.7
	1200	184T	SPM3215T-G	1,915	HV4	18.43	101	89.5	230/460	3.3
3	3600	145T	SPM3158T-G	1,602	HV4	14.38	64	88.5	230/460	3.5
	1800	182T	SPM3211T-G	1,893	HV4	17.99	92	91.0	230/460	4.0
	1200	213T	SPM3305T-G	2,383	HV4	17.45	127	90.2	230/460	4.5
5	3600	182T	SPM3212T-G	1,778	HV4	16.49	81	91.0	230/460	5.6
	1800	184T	SPM3218T-G	2,040	HV4	18.43	101	91.0	230/460	6.6
	1200	215T	SPM3309T-G	3,000	HV4	17.45	141	90.2	230/460	7.3
7 1/2	3600	184T	SPM3219T-G	2,613	HV4	17.99	96	90.2	230/460	8.4
	1800	213T	SPM3311T-G	2,875	HV4	18.20	158	92.4	230/460	10.0
	1200	254T	SPM2506T-G	3,647	HV4	23.19	248	91.7	230/460	11.0
10	3600	213T	SPM3312T-G	2,981	HV4	17.45	130	91.7	230/460	11.5
	1800	215T	SPM3313T-G	3,397	HV4	18.20	158	92.4	230/460	12.1
	1200	256T	SPM2511T-G	4,587	HV4	24.21	288	92.4	230/460	14.5
15	3600	215T	SPM3314T-G	4,066	HV4	18.95	187	92.4	230/460	17.0
	1800	254T	SPM2513T-G	4,774	HV4	23.20	289	93.6	230/460	18.3
20	3600	254T	SPM2514T-G	4,837	HV4	21.69	242	92.4	230/460	23.0
	1800	256T	SPM2515T-G	5,187	HV4	25.21	404	94.1	230/460	24.0

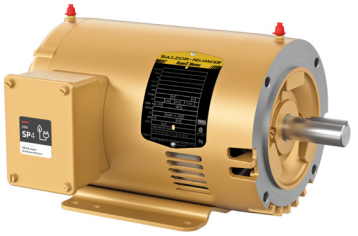


ABB SP4
INVERTER DUTY
NEMA Super Premium Motors

C-face foot mounted, with internal shaft grounding seal

Hp	RPM	NEMA Frame	Catalog Number	List Price	Disc. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps
	3600	56C	CSPM31115-G	1,421	HV4	11.07	35	82.5	230/460	1.3
1	1800	143TC	CSPM3116T-G	1,726	HV4	11.62	37	85.5	230/460	1.6
	1200	145TC	CSPM3156T-G	1,759	HV4	13.00	47	84.0	230/460	1.7
	3600	143TC	CSPM3120T-G	1,525	HV4	11.62	38	85.5	230/460	2.1
1 1/2	1800	145TC	CSPM3154T-G	1,791	HV4	12.13	45	87.5	230/460	2.3
	1200	182TC	CSPM3207T-G	2,037	HV4	16.50	90	88.5	230/460	2.5
	3600	56C	CSPM31155-G	1,662	HV4	12.07	43	86.5	230/460	2.5
2	1800	145TC	CSPM3157T-G	1,901	HV4	14.38	56	88.5	230/460	2.7
	1200	184TC	CSPM3215T-G	2,076	HV4	16.93	101	89.5	230/460	3.3
	3600	145TC	CSPM3158T-G	1,759	HV4	14.38	64	88.5	230/460	3.5
3	1800	182TC	CSPM3211T-G	2,051	HV4	16.50	92	91.0	230/460	4.0
	1200	213TC	CSPM3305T-G	2,580	HV4	18.19	127	90.2	230/460	4.5
	3600	182TC	CSPM3212T-G	1,919	HV4	14.99	81	91.0	230/460	5.6
5	1800	184TC	CSPM3218T-G	2,218	HV4	16.93	101	91.0	230/460	6.6
	1200	215TC	CSPM3309T-G	3,283	HV4	18.19	141	90.2	230/460	7.3
	3600	184TC	CSPM3219T-G	2,869	HV4	16.50	96	90.2	230/460	8.4
7 1/2	1800	213TC	CSPM3311T-G	3,142	HV4	18.94	158	92.4	230/460	10.0
	1200	254TC	CSPM2506T-G	3,948	HV4	23.19	248	91.7	230/460	11.0
	3600	213TC	CSPM3312T-G	3,261	HV4	18.19	130	91.7	230/460	11.5
10	1800	215TC	CSPM3313T-G	3,735	HV4	18.94	158	92.4	230/460	12.1
	1200	256TC	CSPM2511T-G	5,018	HV4	24.21	288	92.4	230/460	14.5
15	3600	215TC	CSPM3314T-G	4,496	HV4	19.69	187	92.4	230/460	17.0
	1800	254TC	CSPM2513T-G	5,230	HV4	24.21	289	93.6	230/460	18.3
20	3600	254TC	CSPM2514T-G	5,303	HV4	21.69	242	92.4	230/460	23.0
	1800	256TC	CSPM2515T-G	5,701	HV4	25.21	404	94.1	230/460	24.0

ENERGY SAVINGS

How does this translate to power consumption reduction and energy savings?
Here are results on actual customer test result in the US market; however, depending on energy costs, these savings could be significantly greater.

—
Motor: 10 Hp/1800 RPM

NEMA Premium®	**Upgrade: SP4 NEMA Premium 4**
Average unit consumption per day (based on seven-day average) 200.1 kWH	Average unit consumption per day (based on seven-day average) 193.8 kWH
Estimated annual energy cost (based on 0.12 $ per kWh) $8,764	Estimated annual energy cost (based on 0.12 $ per kWh) $8,488
Tons/Year CO_2 31 Tons	Tons/Year CO_2 30 Tons
Energy cost savings per motor	**$276/motor**



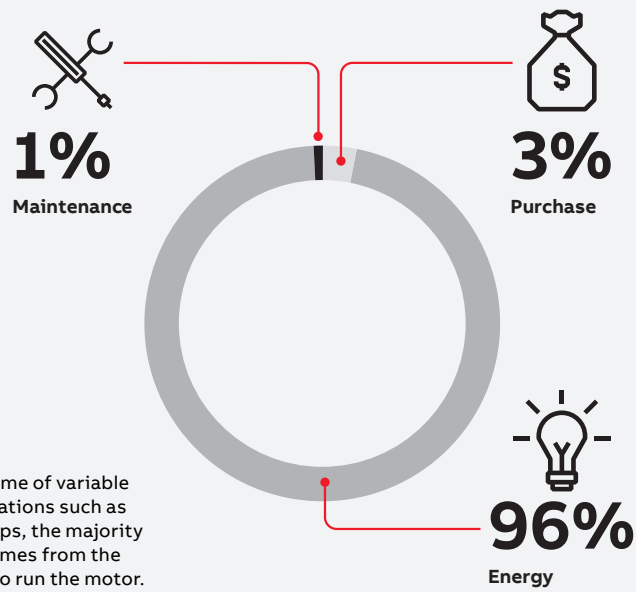
Energy reduction:
3% of 1 Ton

Annual Savings
$276 per unit

Estimated return on investments
18 to 24 months

Better lifetime efficiency for the whole system
Upgrading to NEMA Super Premium not only future-proofs your installation, it improves the performance of your overall system. Replacing older motor systems with more efficient ones does carry an initial financial cost, the long-term savings over the lifetime of the application far outweigh the cost of purchase. In fact, the initial investment can often be paid back in as little as one to three years.

—
Use the ABB energy savings calculator



—
Over the lifetime of variable torque applications such as fans and pumps, the majority of the cost comes from the energy used to run the motor.

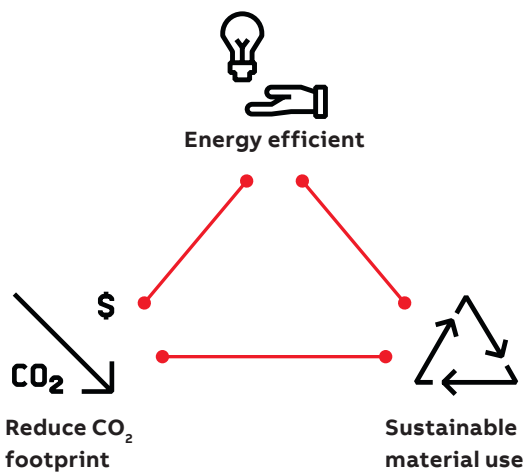
SUSTAINABILITY

ABB has set ourselves the ambitious target of helping our customers reduce their annual CO_2 emissions in excess of 100 megatonnes by 2030. This is equivalent to the annual emissions of 30 million combustion cars. An example of how this can be accomplished is the ability of ABB drives powering electric motors that can reduce electricity consumption by up to 25%.

Smart sensor for energy consumption
The ABB Ability™ calculates several parameters of datapoints including speed, motor power and torque. With this information, we can accurately calculate energy usage and help our customers optimize their operations.

—
White paper:
Improving end-to-end system efficiency

—
Learn more about:
Energy Efficiency Movement



Time to make a difference

Join the Energy Efficiency Movement

45%

Electric motors consume **over 45% of the world's electricity.**

x2

By 2040 the number of motors **will double.**

10%

Adoption of high-efficiency motor systems would **cut global electricity consumption by up to 10%.**

Changing just one motor can make a difference.

ABB, YOUR GLOBAL VALUE PARTNER

Partnering with ABB gives you access to some of the world's most innovative technology and thinking

Global reach
ABB operates in over 100 countries with its own manufacturing, logistics and sales operations together with a wide network of local channel partners that can quickly respond to your needs. They bring our products and services straight to your front door. ABB channel partners have in-depth knowledge of local markets and are conversant with the defined ABB products and processes.

Energy efficiency
ABB has what it takes to help every industry and application reach new levels of efficiency and energy savings even under the most demanding conditions. Combining the best available materials with superior technology, our motors are designed to operate reliably no matter how challenging the process or application, and to have low life cycle costs.



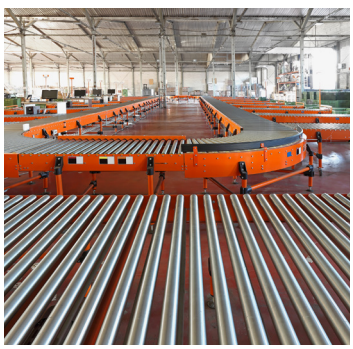





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