

V*S MASTER RS

High performance vector duty motor

Engineered for vector-duty performance, the ABB Baldor-Reliance V*S Master RS series features a lightweight rolled-steel frame and advanced inverter-duty insulation to ensure dependable operation across a wide speed range—bringing robust performance and energy efficiency to applications where space and simplicity matter.

V*S MASTER RS

The most practical 1000:1 constant-torque motor

Built for today's demanding variable-speed environments, the ABB Baldor-Reliance V*S Master RS series delivers the performance and protection modern systems require. Its rugged construction and advanced electrical safeguards work together to reduce wear, minimize downtime and extend motor life. Designed for seamless integration into drive-controlled applications, the V*S Master RS series provides the reliable, consistent operation that keeps production moving with confidence.



COMPACT AND VERSATILE

- Lightweight rolled-steel design allows installation in tight spaces where cast iron frames won't fit.
- One motor can handle a broad range of speeds—**eliminating the need for mechanical speed reducers or multiple motor sizes.**
- **200% overload** torque for 1 minute below base speed and constant horsepower operation to 1.5x the base speed. This allows for heavy startup loads, jams or sudden load spikes without stalling or tripping the drive — improving uptime and process reliability.



VARIABLE SPEED PROTECTION

- 1000:1 CT maintains smooth, controlled operation even at very low speeds.
- Engineered for long life with **Class H** insulation, **three built-in thermostats** for overload protection and internally mounted **shaft grounding device.**
- Exceeds NEMA MG1 Part 31 requirements for motors operated on PWM inverter drives and eliminates the formation of corona, which can greatly shorten the insulation life.

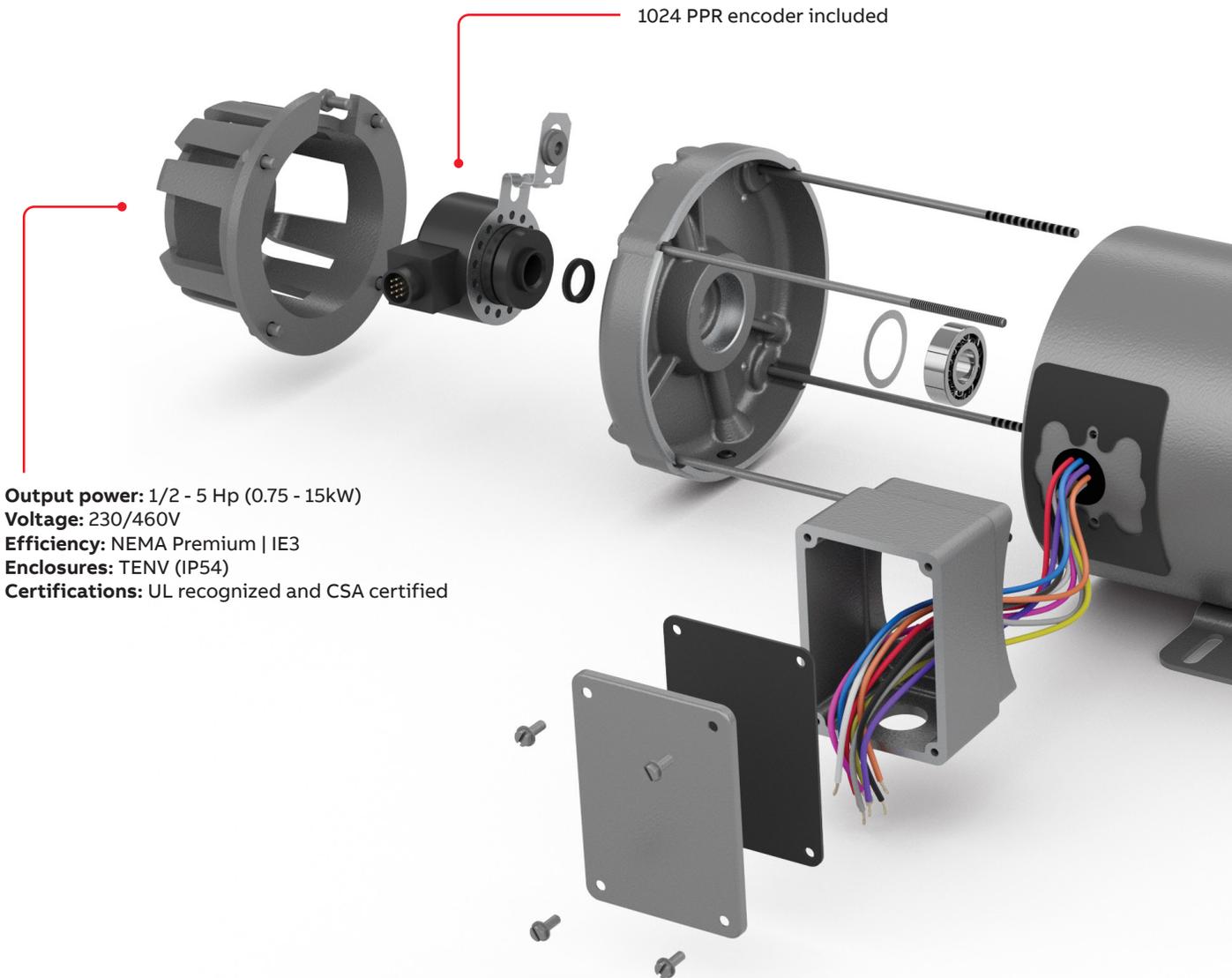


RELIABILITY

- Built on the proven V*S Master platform, the RS series delivers market-leading motor technology in a more compact, economical design—stronger, smarter and cost competitive.
- Built to pair seamlessly with vector or inverter drives for dynamic **response, energy efficiency** and **longer motor life.**
- Meets **BABA** (Build America, Buy America) – manufactured in Fort Smith, Arkansas, USA, meeting federal requirements for local manufacturing. Over 90% of ABB Baldor-Reliance motors meet the recent Buy American Act as well.

V*S MASTER RS

The most practical 1000:1 constant torque motor



1024 PPR encoder included

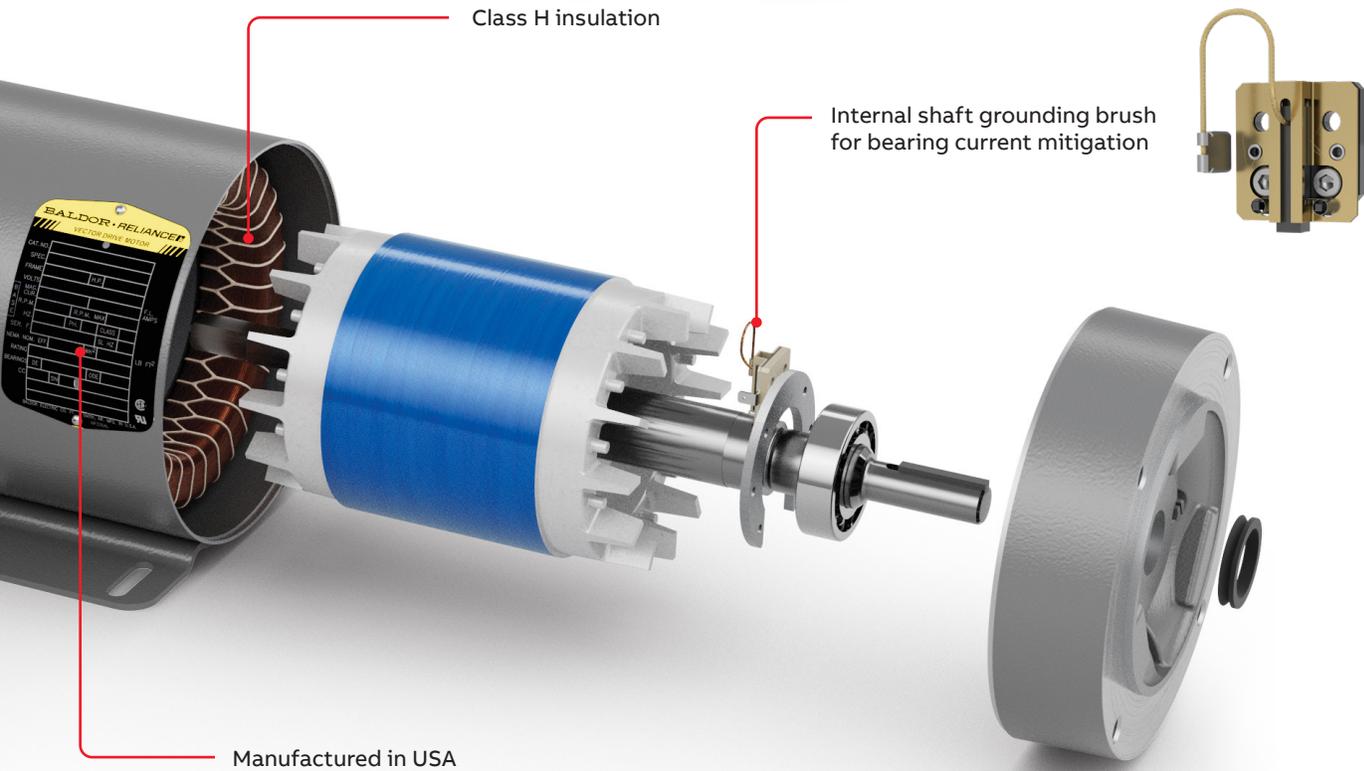
Output power: 1/2 - 5 Hp (0.75 - 15kW)
Voltage: 230/460V
Efficiency: NEMA Premium | IE3
Enclosures: TENV (IP54)
Certifications: UL recognized and CSA certified

BALDOR • RELIANCE
VECTOR DRIVE MOTOR

CAT. NO.	CZDNM3546T		
SPEC.	35E6716K590Z1		
FRAME	143TC	H.P.	1 TE
VOLTS	230/460 ENCL TENV		
B A S E	MAG. CUR.	1.46/.73	2.8/1.4
	R.P.M.	1745	R.P.M. MAX 2700
	HZ.	60	PH. 3 CLASS H
SER. F.	1.00	SL HZ	1.83
NEMA NOM. EFF.	85.5	WK ²	0.174
RATING	40C AMB-CONT		
BEARINGS	DE 6205	ODE	6203
CC	010A SN		
	1000:1 CT 1.5:1 CHP		
	1.15 SF ON SINEWAVE		

BALDOR ELECTRIC CO. FT. SMITH, AR. MFG. IN U.S.A.
NP3943L

Labels: Class H Insulation, Certifications, BABA compliant, 1000:1 Constant torque, Motor efficiency, Catalog number, F.L. AMPS, LB FT², NEMA Premium, Energy Verified MC 183051, UL

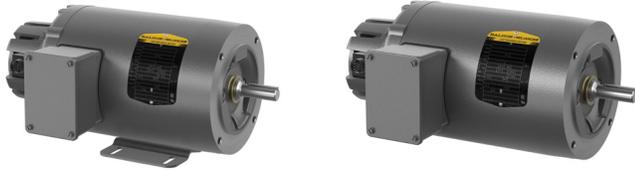


**ABB BALDOR
RELIANCE III**
SHAFT GROUNDING BRUSH
INSTALLED

LB1508

V*S MASTER RS

Catalog numbers and ratings



Hp	Base speed	C.H. speed RPM	Frame	Catalog number	List price	Disc. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full load eff.	Voltage	Full load amps
C-face mounted											
1/2	1800	6000	56C	CZDNM3538	1,493	VSR	13.84	34	82.5	230/460	0.8
	1200	1800	56C	CZDNM3539	1,634	VSR	14.84	41	80.0	230/460	1.2
3/4	1800	2700	56C	CZDNM3542	1,493	VSR	13.84	34	82.5	230/460	1.1
	1200	1800	56C	CZDNM3543	1,634	VSR	14.84	41	82.5	230/460	1.4
1	1800	2700	56C	CZDNM3546	1,596	VSR	14.84	45	85.5	230/460	1.4
			143TC	CZDNM3546T	1,563	VSR	14.90	45	85.5	230/460	1.4
	1200	1800	56C	CZDNM3556	1,755	VSR	15.72	47	82.5	230/460	1.9
			145TC	CZDNM3556T	1,725	VSR	15.78	47	82.5	230/460	1.9
1.5	1800	2700	145TC	CZDNM3554T	1,604	VSR	17.15	56	86.5	230/460	2.4
	1200	1800	182TC	CZDNM3604T	2,018	VSR	19.28	97	87.5	230/460	2.5
2	1800	2700	145TC	CZDNM3558T	1,632	VSP	17.15	63	86.5	230/460	2.8
	1200	1800	184TC	CZDNM3614T	2,132	VSR	19.28	101	88.5	230/460	3.5
3	1800	2700	182TC	CZDNM3610T	1,855	VSR	19.28	92	89.5	230/460	4.1
	1200	1800	213TC	CZDNM3704T	2,685	VSR	21.72	154	89.5	230/460	4.6
5	1800	2700	184TC	CZDNM3615T	1,921	VSR	19.28	101	89.5	230/460	6.6
	1200	1800	215TC	CZDNM3708T	3,023	VSR	22.47	179	89.5	230/460	7.2
C-face footless											
1/2	1800	6000	56C	VZDNM3538	1,490	VSR	13.84	34	82.5	230/460	0.8
	1200	1800	56C	VZDNM3539	1,632	VSR	14.84	41	80.0	230/460	1.2
3/4	1800	2700	56C	VZDNM3542	1,490	VSR	13.84	34	82.5	230/460	1.1
	1200	1800	56C	VZDNM3543	1,632	VSR	14.84	41	82.5	230/460	1.4
1	1800	2700	56C	VZDNM3546	1,594	VSR	14.84	45	85.5	230/460	1.4
			145TC	VZDNM3546T	1,560	VSR	14.90	45	85.5	230/460	1.4
	1200	1800	56C	VZDNM3556	1,757	VSR	15.72	47	82.5	230/460	1.9
			145TC	VZDNM3556T	1,725	VSR	15.78	47	82.5	230/460	1.9
1.5	1800	2700	145TC	VZDNM3554T	1,603	VSR	17.15	56	86.5	230/460	2.4
	1200	1800	182TC	VZDNM3607T	2,109	VSR	19.28	97	87.5	230/460	2.5
2	1800	2700	145TC	VZDNM3558T	1,630	VSP	17.15	63	86.5	230/460	2.8
	1200	1800	184TC	VZDNM3614T	2,132	VSR	19.28	101	88.5	230/460	3.5
3	1800	2700	182TC	VZDNM3610T	1,856	VSR	19.28	92	89.5	230/460	4.1
	1200	1800	213TC	VZDNM3704T	2,685	VSR	21.72	154	89.5	230/460	4.6
5	1800	2700	184TC	VZDNM3615T	1,931	VSR	19.71	101	89.5	230/460	6.6
	1200	1800	215TC	VZDNM3708T	3,023	VSR	22.47	179	89.5	230/460	7.2

RED catalog number indicates **NEW** product

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. The 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.





ABB Motors and Mechanical Inc.

5711 R.S. Boreham, Jr. Street
Fort Smith, AR 72901
Ph: 1.479.646.4711

new.abb.com/motors-generators