

# **RV SYSDrive AC Inverters**



Sensing tomorrow<sup>™</sup>

## RV Inverter Family Satisfies Motor Requirements from 0.5 to 550 HP

#### Wide Range of Sizes

Omron's full size, full-featured RV inverters combine reliable, traditional control with innovations that enhance motor life and performance. Available in 240 VAC and 480 VAC three-phase supply voltages.

#### For Simple & Advanced Applications

With volts/hertz for simple applications and open or closed loop vector control for complex applications, you can standardize on RV inverters to satisfy most of your motor control needs:

- Elevators
- Winders
- Conveyors
- General machinery
- Process lines
- Punch presses
- And many others

For example, the open loop vector control allows an excellent torque characteristic at a speed range of 100:1 and makes 200% of the rated torque available at 0.5 Hz. Closed loop vector control allows a speed range of 1000:1 and 200% of rated torque at zero speed.

#### **Built-in Functions**

- PID parameter calculation
- Energy savings
- Configurable digital and analog I/O
- Over-current tripping protection ensures uninterrupted operation
- Copy keypad for quick inverter setup
- Fourth generation IGBTs

#### Auto-tuning

In addition to standard rotational auto-tune, a new static auto-tune function eliminates the need for motor rotation to determine and set parameters.





#### **High-slip Braking**

A new high-slip braking function for intermittent braking applications shortens motor stopping time by one-third without using braking resistors. High-slip braking dissipates kinetic energy in the motor rather than in the inverter when braking resistors are used. Inverters up to 25 HP also include a built-in braking transistor.

#### **Communications**

With more inverters connected via fieldbus networks, Omron has provided the user a built-in RS-485/422 Modbus communications protocol and made available optional cards for DeviceNet and Profibus. Now it is simpler than ever to send speed references and operation commands via the system and monitor inverter status.



**Global** The RV was designed and manufactured to comply with UL, cUL standards, plus CE standards for Europe.

#### Low Noise

All RV models have conventional highcarrier PWM control as well as a unique, low-carrier PWM control to suppress noise. Select the control mode based on the function and application. For constant torque applications, the inverter automatically applies the low-carrier PWM control mode.

All RV models above 18.5 kW include a DC link reactor as standard. This reduces harmonic distortion in drive systems and improves the system power factor. Also, 12-pulse configuration can be set on the same units, since all the necessary equipment is built in, except the transformer that should be chosen to suit specific project requirements. Optional EMI/RFI filters are available to minimize high frequency electrical noise.





#### Easy to Maintain & Inspect

Setup is simplified through a quick program mode and the standard keypad doubles as a copy unit to set multiple drives. The removable control circuit terminal strip makes wiring simpler for installation and maintenance. Screw terminals are used throughout to provide



reliable connection. The cooling fan automatically switches off when not required, prolonging fan life. When the fan does require changing, the process is simplified through a detachable fan design. The face cover is a split design, providing safe access to control terminals.

#### Specifications.

	Voltage Class									24	0 V thr	ee-ph	ase								
Part	Number RV-							A											В		
		2004	2007	2015	2022	2037	7   20	55	2075	211	) 2150	21	85	2220	2300	2370	2450	2550	2750	2900	211K
	Rage Horsepower (HP)*	0.5	1	2	3	5	7.	.5	10	15	20	2	5	30	40	50	60	75	100	125	150
	훈려 Rated Output Current (A)*	3.2	4.1	7	9.6	15	2	3	31	45	58	7	1	85	115	145	180	215	283	346	415
ŧ	E≥ Horsepower (HP)*	0.5/0.75	1	2	3	5	7.	.5	10	15	20	2	5	30	40	50/60	75	_	100/125	150	-
nt	툴 <sup>급</sup> Rated Output Current (A)*	3.6	4.6	7.8	10.8	16.8	3 2	3	31	46.2	59.4	74	1.8	88	115	162	192	215	312	360	415
•	Max. Output Voltage (V)	3-phas	e, 200	to 240	VAC (D	epends	s on in	י iput	voltage	e)											
	Max. Output Frequency (Hz)	CT (lov VT (hig	v carri gh car	er, cons rier, vari	tant tor able tor	que ap que ap	plicati plicati	ons) ons)	: 300   : 400	Hz — H Hz — N	eavy dı ormal (	ity luty									
r Supply	Rated Voltage (V) and Frequency (Hz)	3-phas	e, 200	) to 240	VAC, 50	0/60 Hi	Z									3-pha Coolin 200 to	se, 200 t Ig Fan: 2 0 230 VA	o 230 \ 00 to 2 C at 60	/AC, 50/6 20 VAC a Hz	60 Hz It 50 Hz,	
Iawo	Allowable Voltage Fluctuation	-15% t	0 +10	%																	
Å	Allowable Frequency Fluctuation	±5%																			
	Measures for Power Supply Harmonics	Optiona	l DC r	eactor										Built-ir	DC rea	ictor					
	Protective Enclosure	Enclos	ed, wa	ıll-moun	ting (N	EMA1)										Open o	chassis (	equival	ent to IPC	)0)	
	Voltage Class									4	80 V th	ree-p	hase	)							
Part	Number <b>RV-</b>							Α										B			
		4004 40	007 40	15 402	2 4037	4055	40754	1110	4150	4185	4220 43	00 43	70 44	450 45	550 <mark>47</mark> 5	50 490	00 413	3K 41	6K 418	K 422K	430K
	Horsepower (HP)*	0.75	1 :	2 3	5	7.5	10	15	20	25	30 4	0 5	06	60 7	'5 <mark>1</mark> 0	0 15	0 20	0 25	0 300	400	500/550
	Pated Output Current (A)*	1.8 2	2.1 3	.7 5.3	7.6	12.5	17	24	31	39	45 6	0 7	5 9	91 1	12 15	0 180	) 26	0 30	4 370	506	675
Ħ	Horsepower (HP)*	.5/.75	1 1.	5/2 3	5	7.5	10 1	5/20	25	30	- 40	50 6	0 7	75   1	00 12	5 15	0 -	- 25	0 300/35	60 400/45	0 500/550
Outp	Pated Output Current (A)*	1.8 2	2.1 3	.7 5.3	7.6	12.5	17	27	34	40	50.4 67	.2 7	7 9	96 1	25 15	6 180	) 26	0 30	4 414	515	675
-	Max. Output Voltage (V)	3-phas	e, 380	) to 480	VAC (D	epends	s on in	וput י	voltage	e)											
	Max. Output Frequency (Hz)	CT (lov VT (hig	v carri jh car	er, fixed rier, vari	torque able tor	applic que ap	ations) plicati	): 30 ons)	0 Hz – : 400 I	· Heav Hz – N	/ duty ormal (	luty									
Supply	Rated Voltage (V) and Frequency (Hz)	3-phas	e, 380	) to 480	VAC, 50	0/60 H	Z														
ver	Allowable Voltage Fluctuation	-15% t	0 +10	%																	
Po	Allowable Frequency Fluctuation	±5%																			
	Measures for Power Supply Harmonics	Optiona	l DC r	eactor							E	uilt-in l	DC re	actor							
	Protective Enclosure	Enclos	ed. wa	ll-moun	tina (N	EMA1)									Op	oen chas	sis (equi	valent t	o IP00)		

\*Note: The difference between Heavy Duty ratings and the Normal Duty ratings for the drive are the rated input and output current, overload capacity, carrier frequency, current limit, and maximum output frequency. Parameter C6-01 must be set to value of "0" for Heavy Duty ratings and "2" for Normal Duty ratings. Factory default is Heavy Duty (C6-01=0).

### Common Specifications

		Common Specifications							
	Control Method	Sine wave PWM; Closed loop flux vector, Open loop vector control, V/f control, V/f with PG control (switched by parameter setting)							
	Speed Control Range	200:1 (1000:1 with PG)							
	Speed Control Accuracy	±0.2% (25°C ± 10°C) (±0.02% with PG)							
	Speed Control Response	5 Hz (30 Hz with PG)							
	Torque Characteristics	Heavy duty/CT selected (low carrier, fixed torque applications): 150% /0.5 Hz (Open or closed loop vector control) Normal duty/VT selected (high carrier, variable torque applications): 120%/0.5 Hz							
	Frequency Control Range	0.01 to 300 Hz (CT selected.), 0.01 to 400 Hz (VT selected.)							
	Frequency Accuracy	Digital references: ± 0.01% (-10°C to +40°C)							
ន	(Temperature Characteristics)	Analog references: ±0.1% (25°C ±10°C)							
ontrol cteristi	Frequency Setting Resolution	Digital references: 0.01 Hz Analog references: 0.03 Hz/60 Hz (10 bit with sign)							
lara C	Output Frequency Resolution	0.01 Hz							
5	Overload Capacity and	Heavy duty/CT selected: 150% of rated output current per minute (*1)							
	Maximum Current (*2)	Normal duty/VI selected: Approximately 110% of rated output current per minute							
	Frequency Setting Signal	Voltage input of 0 to $\pm$ 10 or 0 to 10 (20 k $\Omega$ ) VDC or current input of 4 to 20 mA							
	Acceleration/Deceleration Time	0.01 to 6000.0 s (4 selectable combinations of independent acceleration and deceleration settings)							
	Braking Torque	Approximately 20% (Approximately 125% with Braking Resistor option) (100% + with High Slip Braking)							
	Main Control Functions	Auto restart after momentary power loss, speed searches, overtorque detection, torque limits, 16-speed control (maximum), acceleration/deceleration/deceleration, 2-wire or 3-wire sequence, autotuning (rotational or stationary), dwell functions, cooling fan ON/OFF control, slip compensation, torque compensation, jump frequencies, upper and lower frequency limits, DC injection braking for starting and stopping, high-slip braking, PID control (with sleep function), energy-saving control, RS-485/422A communications (Conforms to MODBUS, 19.2 kbps maximum), fault reset, and function copying.							
	Motor Protection	Protection by electronic thermal overload relay.							
	Overcurrent Protection	Instantaneous protection. Stops at approximately 200% of rated output current.							
s	Overload Protection	Heavy duty/CT selected (low carrier, fixed torque applications): 150% of rated output current per minute (not for 110 kW) Normal duty/VT selected (high carrier, variable torque applications): Approximately 110% of rated output current per minute							
unction	Overvoltage Protection	200 Class Inverter: Stops when main-circuit DC voltage is above 410 V. 400 Class Inverter: Stops when main-circuit DC voltage is above 820 V.							
ective F	Undervoltage Protection	200 Class Inverter: Stops when main-circuit DC voltage is below 190 V. 400 Class Inverter: Stops when main-circuit DC voltage is below 380 V.							
Prote	Momentary Power Loss Ridethru	Stops for 15 ms or more. By selecting the momentary power loss method, operation can be continued if power is restored within 2 s.							
	Cooling Fin Overheating	Protection by thermistor.							
	Grounding Protection	Protection by electronic circuits. (Overcurrent level)							
	Charge Indicator	Lit when the main circuit DC voltage is approximately 50 V or more.							
	Application Site	Indoor (no corrosive gas, dust, etc.)							
al	Ambient Operating Temperature	-10°C to 40°C (Closed wall-mounted type) / 10°C to 45°C (Open chassis type)							
onment ditions	Ambient Operating Humidity	95% max. (with no condensation)							
Con	Storage Temperature	-20°C to + 60°C (short-term temperature during transportation)							
Ξ	Altitude	3300 ft (1000 m) max.							
	Vibration	10 to 20 Hz, 9.8 m/s <sup>2</sup> max.; 20 to 50 Hz, 2 m/s <sup>2</sup> max, oscillation vibration of 20 Hz							
	Protective Enclosure	Enclosed, wall-mounting (NEMA1: Equivalent to IP20) or Mounted in a panel (equivalent to IP00)							

\*1: Not including the 200 V Class Inverter for 110 kW and the 400 V Class Inverters for 220 and 300 kW. \*2: Increase the Inverter capacity if loads exceeding these current values are expected. Rotational autotuning is required to obtain the specifications labeled with PG or flux vector.

	Maximum		240 \	/ 480 V		240 V	480 V
RV-DC	motor horsepower	004	0.5	0.75	370	50	50
——————————————————————————————————————	(Heavy duty	007	1	1	450	60	60
RV-Series	HP ratings)	015	2	2	550	75	75
Inverter		022	3	3	750	100	100
		037	5	5	900	125	125-150
		055	7.5	7.5	11K	150	-
		075	10	10	13K	-	200
		110	15	15	16K	-	250
		150	20	20	18K	-	300
		185	25	25	22K	-	400
		220	30	30	30K	-	500-550
		300	40	40			
	Voltage class	2	Т	hree-phase 2	40 VAC	(200 V C	Class)
		4	Т	hree-phase 4	80 VAC	(400 V C	lass)
	Degree of	А	E	nclosed wall m	nounted	(IP20 or h	nigher)
	protection	В	0	pen chassis			

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#### Accessories\_

Where you find blanks in the part number, Contact Omron IDM Controls for the complete part number for the model that exactly matches your inverter.

Name	Purpose	Description	Part Number
Fans	Plug-in replacement for fan installed in inverter replaces the cooling fan when service time has come or a cooling fan fault (FAN) alarm has been diaplaved	For 200 V models For 400 V models	3G3IV-PFAN□ 3G3IV-PFAN□
Digital operator	Perform simple programming and diagnostics from the front panel.	LCD display digital operator displays messages and programming codes.	PJV0P160
Digital operator cable	Extension cable allows remote use of the digital	1 m length	010.35.327
	operator.	3 m length	010.35.328
Analog monitor card	Makes it possible to use the analog output of the terminals as a control signal.	Two points; Output resolution of 1/2,048 (output voltage of 0 to ±10 VDC)	A0-12
Isolated analog monitor card	Makes it possible to use the analog output of the terminals as a control signal.	Output voltage of 0 to ±10 VDC; Current: 0 to 20 mA, 4 to 20 mA	AO-12B2
120 VAC interface card	Makes it possible to use 120 VAC control wiring on inverter inputs.	Connects to inverter input terminals.	UTC00040
Pulse generator (PG) speed control cards	Provide feedback to the inverter from encoders and other devices.	Phase-A (single-phase) pulse input and open collector output for V/f control with a PG. Maximum response frequency: 30 kHz, with pulse monitor output.	PG-A2
		Phase A/B pulse inputs and open collector output for flux vector control. Maximum response frequency: 30 kHz, with pulse monitor output.	PG-B2
		Phase-A (single-phase) pulse input and line driver output (RS-422) for V/f control with a PG. Maximum response frequency: 300 kHz with pulse monitor output.	PG-D2
		Dual feedback inputs for use with 2 motors. Phase A/B/Z pulse inputs and line driver output (RS-422) for flux vector control. Maximum response frequency: 300 kHz with pulse monitor output.	PG-W2
		Phase A/B/Z pulse inputs and line driver output (RS-422) for flux vector control. Maximum response frequency: 300 kHz, with pulse monitor output.	PG-X2
DeviceNet communications card (See note 1)	Communicate with any DeviceNet master; registers inverter as a DeviceNet slave device.	Integrate inverter drive control into a DeviceNet network with via programmable controller- or PC- based master.	3G3RV-PDRT2
Input noise filter	Controls noise generated by the inverter so it does not enter the power supply.	Connects to the motor output side. Fill in the blank with the motor output power rating in kW to match your drive.	3G3RV-PFI⊡(CE) RF⊡(NON-CE)
Braking unit	Reduces the deceleration time of the motor. Used	For 200 V models	CDBR-2□B
	with braking resistor below. Not required with inverters of 7.5 kW or less for 200 V types, or 15 kW or less for 400 V types	For 400 V models	CDBR-4□B
Braking resistor	Consumes the regenerative motor energy with a	For 200 V models	3G3IV-PLKEB2
(See Note 2)	resistor to reduce deceleration time (duty cycle: 3% ED).	For 400 V models	3G3IV-PLKEB4□
AC reactor	Used to control harmonics generated by the	For 200 V models	RL-D
	nverter or when the power supply capacity is greatly larger than the inverter's capacity. Also used to increase the power factor.	For 400 V models	KL-D
DC reactor	Used to control harmonics generated by the inverter and to improve the input power factor of the inverter.	All inverters of 18.5 kW or higher contain built-in DC reactors. For 18.5 kW inverters and smaller, a DC reactor is optional.	□RB00□

#### Notes:

1. If using a DeviceNet master from a manufacturer other than Omron, download the EDS file for RV inverters from the Omron IDM Controls (www.idmcontrols.com) website.

2. Not required with inverters of 3.7 kW or less for 200 V models, or for inverters of 2.2 kW or less for 400 V models.



#### Dimensions.

#### **Open Chassis Inverters (IP00)**

#### Figure A

200-V class inverters of 30 to 40 HP 400-V class inverters of 30 to 75 HP  $\,$ 



#### Enclosed Wall-mounted Inverters (NEMA 1)

#### Figure C

200-V / 400-V class inverters of 0.5 to 25 HP



#### Figure **B**

200-V class inverters of 50 to 150 HP 400-V class inverters of 100 to 250 HP  $\,$ 



#### **Figure D**

200-V class inverters of 30 to 100 HP 400-V class inverters of 30 to 250 HP



Note: Please refer to the figure code on the next dimensions page for the standard enclosure type.

### Dimensions \_\_\_\_

Voltage	Max. Motor	Model Number	Figure	Enclosure	Dimensio	ns: inches (n	nm)	Approx.	Heat	at Loss (W)		Cooling
Class	Output (Heavy Duty HP)			Туре	w	н	D	Weight (lbs)	External	Internal	Total Heat Loss	Method
240 V	0.5	RV-A2004	С	NEMA 1					20	39	59	Natural
3-phase	1	RV-A2007	С						27	42	69	
	2	RV-A2015	С		/ / /		6.18 (157)	6.61	50	50	100	
	3	RV-A2022	С		5.51 (140)	11.02 (280)			70	59	129	
	5	RV-A2037	С				6.97 (177)	8.82	112	74	186	Fan
	7.5	RV-A2055	С						164	84	248	
	10	RV-A2075	С		7.87 (200)	11.81 (300)	7.76 (197)	13.23	219	113	332	
	15	RV-A2110	С			12.20 (310)		15.43	374	170	544	
	20	RV-A2150	С		9.45 (240)	13.78 (350)	8.15 (207)	24.25	429	183	612	
	25	RV-A2185	С			14.96 (380)			501	211	712	
	30	RV-A2220	D		10.00 (255)	21.06 (535)	10.16 (258)	46.30	586	274	860	
	40	RV-A2300	D		10.99 (279)	24.21 (615)		52.91	865	352	1217	
	50	RV-B2370	А	Open	14.93 (379)	23.62 (600)	11.73 (298)	125.66	1015	411	1428	
	60	RV-B2450	Α		. ,	. ,	12.91 (328)	138.89	1266	505	1771	
	75	RV-B2550	Α		17.88 (454)	28.54 (725)	13.70 (348)	189.60	1588	619	2206	
	100	RV-B2750	В		( )	. ,	· · /	191.80	2019	838	997	
	125	RV-B2900	В		19.89 (505)	33.46 (850)	14.09 (358)	238.10	2437	997	3434	
	150	RV-B211K	В		22.80 (575)	34.84 (885)	14.88 (378)	330.69	2733	1242	3975	
480 V	0.75	RV-A4004	С	NEMA 1					14	39	53	Natural
480 V 3-phase	0.75 1	RV-A4004 RV-A4007	C C	NEMA 1			6.18 (157)	6.61	14 17	39 41	53 58	Natural
480 V 3-phase	0.75 1 2	RV-A4004 RV-A4007 RV-A4015	C C C	NEMA 1	5 51 (140)	11.81 (280)	6.18 (157)	6.61	14 17 36	39 41 48	53 58 84	Natural
480 V 3-phase	0.75 1 2 3	RV-A4004 RV-A4007 RV-A4015 RV-A4022	C C C C	NEMA 1	5.51 (140)	11.81 (280)	6.18 (157)	6.61	14 17 36 59	39 41 48 56	53 58 84 115	Natural Fan
480 V 3-phase	0.75 1 2 3 5	RV-A4004 RV-A4007 RV-A4015 RV-A4022 RV-A4037	C C C C C	NEMA 1	5.51 (140)	11.81 (280)	6.18 (157) 6.97 (177)	6.61 8.82	14           17           36           59           80	39 41 48 56 68	53 58 84 115 148	Natural
480 V 3-phase	0.75 1 2 3 5 7.5	RV-A4004 RV-A4007 RV-A4015 RV-A4022 RV-A4037 RV-A4055	C C C C C C C	NEMA 1	5.51 (140)	11.81 (280)	6.18 (157) 6.97 (177)	6.61 8.82	14       17       36       59       80       127	<ol> <li>39</li> <li>41</li> <li>48</li> <li>56</li> <li>68</li> <li>82</li> </ol>	53 58 84 115 148 209	Natural
480 V 3-phase	0.75 1 2 3 5 7.5 10	RV-A4004 RV-A4007 RV-A4015 RV-A4022 RV-A4037 RV-A4055 RV-A4075	C C C C C C C C	NEMA 1	5.51 (140) 7.87 (200)	11.81 (280)	6.18 (157) 6.97 (177) 7.76 (197)	6.61 8.82 13.23	14       17       36       59       80       127       193	<ol> <li>39</li> <li>41</li> <li>48</li> <li>56</li> <li>68</li> <li>82</li> <li>114</li> </ol>	53 58 84 115 148 209 307	Natural Fan
480 V 3-phase	0.75 1 2 3 5 7.5 10 15	RV-A4004 RV-A4007 RV-A4015 RV-A4022 RV-A4037 RV-A4055 RV-A4075 RV-A4110	C C C C C C C C C C	NEMA 1	5.51 (140) 7.87 (200)	11.81 (280) 11.81 (300)	6.18 (157) 6.97 (177) 7.76 (197)	6.61 8.82 13.23	14       17       36       59       80       127       193       252	39 41 48 56 68 82 114 158	53 58 84 115 148 209 307 410	Fan
480 V 3-phase	0.75 1 2 3 5 7.5 10 15 20	RV-A4004 RV-A4007 RV-A4015 RV-A4022 RV-A4037 RV-A4055 RV-A4075 RV-A4075 RV-A4110 RV-A4150	C C C C C C C C C C C C	NEMA 1	5.51 (140) 7.87 (200) 9.45 (240)	11.81 (280) 11.81 (300) 13.78 (350)	6.18 (157) 6.97 (177) 7.76 (197) 8.15 (207)	6.61 8.82 13.23 22.05	14         17         36         59         80         127         193         252         326	39       41       48       56       68       82       114       158       172	53 58 84 115 148 209 307 410 498	Fan
480 V 3-phase	0.75 1 2 3 5 7.5 10 15 20 25	RV-A4004           RV-A4007           RV-A4015           RV-A4022           RV-A4037           RV-A4055           RV-A4075           RV-A4110           RV-A4150           RV-A4185	C C C C C C C C C C C C C C	NEMA 1	5.51 (140) 7.87 (200) 9.45 (240)	11.81 (280) 11.81 (300) 13.78 (350)	6.18 (157) 6.97 (177) 7.76 (197) 8.15 (207)	6.61 8.82 13.23 22.05	14         17         36         59         80         127         193         252         326         426	<ul> <li>39</li> <li>41</li> <li>48</li> <li>56</li> <li>68</li> <li>82</li> <li>114</li> <li>158</li> <li>172</li> <li>208</li> </ul>	53 58 84 115 148 209 307 410 498 634	Fan
480 V 3-phase	0.75 1 2 3 5 7.5 10 15 20 25 30	RV-A4004         RV-A4007         RV-A4015         RV-A4022         RV-A4037         RV-A4055         RV-A4075         RV-A4110         RV-A4150         RV-A4185         RV-A4220	C C C C C C C C C C C C C C C C C C C	NEMA 1	5.51 (140) 7.87 (200) 9.45 (240) 11.02 (280)	11.81 (280) 11.81 (300) 13.78 (350) 21.06 (535)	6.18 (157) 6.97 (177) 7.76 (197) 8.15 (207) 10.16 (258)	6.61 8.82 13.23 22.05 46.30	14         17         36         59         80         127         193         252         326         426         466	39 41 48 56 68 82 114 158 172 208 259	53 58 84 115 148 209 307 410 498 634 725	Natural Fan
480 V 3-phase	0.75 1 2 3 5 7.5 10 15 20 25 30 40	RV-A4004         RV-A4007         RV-A4015         RV-A4022         RV-A4037         RV-A4055         RV-A4055         RV-A4055         RV-A4100         RV-A4150         RV-A4185         RV-A4220         RV-A4300	C C C C C C C C C C C C C C C D D	NEMA 1	5.51 (140) 7.87 (200) 9.45 (240) 11.02 (280)	11.81 (280) 11.81 (300) 13.78 (350) 21.06 (535)	6.18 (157) 6.97 (177) 7.76 (197) 8.15 (207) 10.16 (258)	6.61 8.82 13.23 22.05 46.30	14         17         36         59         80         127         193         252         326         426         466         678	39       41       48       56       68       82       114       158       172       208       259       317	53 58 84 115 148 209 307 410 498 634 725 995	Fan
480 V 3-phase	0.75 1 2 3 5 7.5 10 15 20 25 30 40 50	RV-A4004           RV-A4007           RV-A4015           RV-A4022           RV-A4037           RV-A4055           RV-A4055           RV-A4055           RV-A4055           RV-A4055           RV-A4055           RV-A4150           RV-A4150           RV-A4185           RV-A4300           RV-A4370	C C C C C C C C C C C C C C D D D	NEMA 1	5.51 (140) 7.87 (200) 9.45 (240) 11.02 (280)	11.81 (280) 11.81 (300) 13.78 (350) 21.06 (535) 25.00 (635)	6.18 (157) 6.97 (177) 7.76 (197) 8.15 (207) 10.16 (258)	6.61 8.82 13.23 22.05 46.30	14         17         36         59         80         127         193         252         326         426         678         784	39       41       48       56       68       82       114       158       172       208       259       317       360	53 58 84 115 148 209 307 410 498 634 725 995 1144	Fan
480 V 3-phase	0.75 1 2 3 5 7.5 10 15 20 25 30 40 50 60	RV-A4004         RV-A4007         RV-A4015         RV-A4022         RV-A4037         RV-A4055         RV-A4055         RV-A4055         RV-A4055         RV-A4055         RV-A4055         RV-A4105         RV-A410         RV-A4150         RV-A4185         RV-A4220         RV-A4300         RV-A4370         RV-A4450	C C C C C C C C C C C C C C C D D D D D	NEMA 1	5.51 (140) 7.87 (200) 9.45 (240) 11.02 (280) 12.96 (329)	11.81 (280) 11.81 (300) 13.78 (350) 21.06 (535) 25.00 (635) 28.15 (715)	6.18 (157) 6.97 (177) 7.76 (197) 8.15 (207) 10.16 (258) 11.14 (283)	6.61 8.82 13.23 22.05 46.30 79.37	14         17         36         59         80         127         193         252         326         426         466         678         784         901	39       41       48       56       68       82       114       158       172       208       259       317       360       415	53 58 84 115 148 209 307 410 498 634 725 995 1144 1316	Fan
480 V 3-phase	0.75 1 2 3 5 7.5 10 15 20 25 30 40 50 60 75	RV-A4004         RV-A4007         RV-A4015         RV-A4022         RV-A4037         RV-A4055         RV-A4055         RV-A4055         RV-A4055         RV-A4055         RV-A4055         RV-A4055         RV-A4075         RV-A4100         RV-A4185         RV-A4200         RV-A4300         RV-A4370         RV-A4450         RV-A4550	C C C C C C C C C C C C C C D D D D D D	NEMA 1	5.51 (140) 7.87 (200) 9.45 (240) 11.02 (280) 12.96 (329)	11.81 (280) 11.81 (300) 13.78 (350) 21.06 (535) 25.00 (635) 28.15 (715) 21.65 (550)	6.18 (157) 6.97 (177) 7.76 (197) 8.15 (207) 10.16 (258) 11.14 (283)	6.61 8.82 13.23 22.05 46.30 79.37	14         17         36         59         80         127         193         252         326         426         466         678         784         901         1203	39         41         48         56         68         82         114         158         172         208         259         317         360         415         405	53 58 84 115 148 209 307 410 498 634 725 995 1144 1316 1698	Fan
480 V 3-phase	0.75 1 2 3 5 7.5 10 15 20 25 30 40 50 60 75 100	RV-A4004           RV-A4007           RV-A4015           RV-A4022           RV-A4037           RV-A4055           RV-A4055           RV-A4055           RV-A4055           RV-A4055           RV-A4055           RV-A4055           RV-A4075           RV-A4075           RV-A4100           RV-A4185           RV-A4185           RV-A4300           RV-A4370           RV-A4450           RV-A4550	C C C C C C C C C C C C C D D D D D D D	Open	5.51 (140) 7.87 (200) 9.45 (240) 11.02 (280) 12.96 (329) 17.88 (454)	11.81 (280) 11.81 (300) 13.78 (350) 21.06 (535) 28.15 (715) 21.65 (550) 28.54 (725)	6.18 (157) 6.97 (177) 7.76 (197) 8.15 (207) 10.16 (258) 11.14 (283) 13.70 (348)	6.61 8.82 13.23 22.05 46.30 79.37 194.01	14         17         36         59         80         127         193         252         326         426         466         678         784         901         1203         1399	39         41         48         56         68         82         114         158         172         208         259         317         360         415         495         575	53 58 84 115 148 209 307 410 498 634 725 995 1144 1316 1698 1974	Fan
480 V 3-phase	0.75 1 2 3 5 7.5 10 15 20 25 30 40 50 60 75 100 125-150	RV-A4004         RV-A4007         RV-A4015         RV-A4022         RV-A4037         RV-A4075         RV-A4075         RV-A4110         RV-A4150         RV-A4185         RV-A4370         RV-A4370         RV-A4550         RV-A450         RV-A450	C C C C C C C C C C C D D D D D D B B B	Open	5.51 (140) 7.87 (200) 9.45 (240) 11.02 (280) 12.96 (329) 17.88 (454)	11.81 (280) 11.81 (300) 13.78 (350) 21.06 (535) 28.15 (715) 21.65 (550) 28.54 (725)	6.18 (157) 6.97 (177) 7.76 (197) 8.15 (207) 10.16 (258) 11.14 (283) 13.70 (348)	6.61 8.82 13.23 22.05 46.30 79.37 194.01 196.21	14         17         36         59         80         127         193         252         326         426         466         678         784         901         1203         1399         1614	39         41         48         56         68         82         114         158         172         208         259         317         360         415         495         575         671	53 58 84 115 148 209 307 410 498 634 725 995 1144 1316 1698 1974 2285	Natural
480 V 3-phase	0.75 1 2 3 5 7.5 10 15 20 25 30 40 50 60 75 100 125-150 200	RV-A4004         RV-A4007         RV-A4015         RV-A4022         RV-A4037         RV-A4055         RV-A4055         RV-A4055         RV-A4150         RV-A4150         RV-A4185         RV-A4300         RV-A4370         RV-A4550         RV-A4550         RV-A4550         RV-A4530	C C C C C C C C C C C C D D D D D D D B B B B	Open	5.51 (140) 7.87 (200) 9.45 (240) 11.02 (280) 12.96 (329) 17.88 (454) 19.89 (505)	11.81 (280) 11.81 (300) 13.78 (350) 21.06 (535) 25.00 (635) 28.15 (715) 21.65 (550) 28.54 (725) 33.46 (850)	6.18 (157) 6.97 (177) 7.76 (197) 8.15 (207) 10.16 (258) 11.14 (283) 13.70 (348) 14.09 (358)	6.61 8.82 13.23 22.05 46.30 79.37 194.01 196.21 264.55	14         17         36         59         80         127         193         252         326         426         466         678         784         901         1203         1399         1614         2388	39         41         48         56         68         82         114         158         172         208         259         317         360         415         495         575         671         1002	53 58 84 115 148 209 307 410 498 634 725 995 1144 1316 1698 1974 2285 3390	Natural Fan
480 V 3-phase	0.75 1 2 3 5 7.5 10 15 20 25 30 40 50 60 75 100 125-150 200 250	RV-A4004         RV-A4007         RV-A4015         RV-A4022         RV-A4037         RV-A4055         RV-A4055         RV-A4055         RV-A4150         RV-A4150         RV-A4150         RV-A4300         RV-A4370         RV-A450         RV-A450         RV-B4750         RV-B4750         RV-B4750         RV-B4450         RV-B4750         RV-B4750         RV-B4750         RV-B413K         RV-B416K	C C C C C C C C C C C C C D D D D D D D	NEMA 1	5.51 (140) 7.87 (200) 9.45 (240) 11.02 (280) 12.96 (329) 17.88 (454) 19.89 (505) 22.80 (575)	11.81 (280) 11.81 (300) 13.78 (350) 21.06 (535) 25.00 (635) 28.15 (715) 21.65 (550) 28.54 (725) 33.46 (850) 36.06 (916)	6.18 (157) 6.97 (177) 7.76 (197) 8.15 (207) 10.16 (258) 11.14 (283) 11.14 (283) 13.70 (348) 14.09 (358) 14.88 (378)	6.61 8.82 13.23 22.05 46.30 79.37 194.01 196.21 264.55 352.74	14         17         36         59         80         127         193         252         326         426         466         678         784         901         1203         1399         1614         2388         2791	39         41         48         56         68         82         114         158         172         208         259         317         360         415         495         575         671         1002         1147	53 58 84 115 148 209 307 410 498 634 725 995 1144 1316 1698 1974 2285 3390 3938	Fan
480 V 3-phase	0.75 1 2 3 5 7.5 10 15 20 25 30 40 50 60 75 100 125-150 200 250 300	RV-A4004         RV-A4007         RV-A4015         RV-A4022         RV-A4037         RV-A4055         RV-A4055         RV-A4055         RV-A4055         RV-A4050         RV-A4300         RV-A4370         RV-A4450         RV-A4370         RV-A4370         RV-A4370         RV-A4370         RV-A4370         RV-A4370         RV-A4370         RV-A4370         RV-A4450         RV-B4370         RV-B4450         RV-B4450	C C C C C C C C C C C C C D D D D D D D	NEMA 1	5.51 (140) 7.87 (200) 9.45 (240) 11.02 (280) 12.96 (329) 17.88 (454) 19.89 (505) 22.80 (575) 27.95 (710)	11.81 (280) 11.81 (300) 13.78 (350) 21.06 (535) 25.00 (635) 28.15 (715) 21.65 (550) 28.54 (725) 33.46 (850) 36.06 (916) 51.38 (1305)	6.18 (157) 6.97 (177) 7.76 (197) 8.15 (207) 10.16 (258) 11.14 (283) 11.14 (283) 13.70 (348) 14.09 (358) 14.88 (378)	6.61 8.82 13.23 22.05 46.30 79.37 79.37 194.01 196.21 264.55 352.74 572	14         17         36         59         80         127         193         252         326         426         466         678         784         901         1203         1399         1614         2388         2791         3237	39       41       48       56       68       82       114       158       172       208       259       317       360       415       575       671       1002       1147       1372	53 58 84 115 148 209 307 410 498 634 725 995 1144 1316 1698 1974 2285 3390 3938 4609	Fan
480 V 3-phase	0.75 1 2 3 5 7.5 10 15 20 25 30 40 50 60 75 100 125-150 200 250 300 400 40 50 60 75 100 125-150 200 25 300 40 25 300 40 25 300 40 25 300 40 25 300 40 50 25 300 40 25 300 40 25 300 40 25 300 40 50 25 300 40 50 25 300 40 50 25 300 40 50 25 50 25 50 25 50 25 50 25 50 25 50 25 50 25 50 25 50 25 50 25 50 25 50 25 50 25 50 25 50 25 50 20 25 50 25 50 20 25 50 20 25 50 20 25 50 20 25 50 20 25 50 20 25 50 20 25 50 20 25 50 20 25 50 20 25 50 20 25 50 20 25 50 20 25 50 20 25 20 25 20 25 20 25 20 20 25 20 20 25 20 25 20 20 25 20 20 25 20 20 25 20 20 25 20 20 25 20 20 20 25 20 20 25 20 20 25 20 20 25 20 20 25 20 20 25 20 20 25 20 25 20 20 25 20 25 20 25 20 20 25 20 20 25 20 20 25 20 25 20 20 25 20 20 25 20 20 25 20 20 20 20 20 20 20 20 20 20	RV-A4004         RV-A4007         RV-A4015         RV-A4022         RV-A4037         RV-A4055         RV-A4055         RV-A4055         RV-A4055         RV-A4055         RV-A4075         RV-A4150         RV-A4150         RV-A4300         RV-A4370         RV-A4450         RV-A4450         RV-B4750         RV-B4750         RV-B4750         RV-B413K         RV-B418K         RV-B418K         RV-B422K	C C C C C C C C C C C C C D D D D D D D	NEMA 1	5.51 (140) 7.87 (200) 9.45 (240) 11.02 (280) 12.96 (329) 17.88 (454) 19.89 (505) 22.80 (575) 27.95 (710)	11.81 (280) 11.81 (300) 13.78 (350) 21.06 (535) 28.15 (715) 21.65 (550) 28.54 (725) 33.46 (850) 36.06 (916) 51.38 (1305)	6.18 (157) 6.97 (177) 7.76 (197) 8.15 (207) 10.16 (258) 11.14 (283) 13.70 (348) 14.09 (358) 14.88 (378) 16.26 (413)	6.61 8.82 13.23 22.05 46.30 79.37 194.01 196.21 264.55 352.74 572 616	14         17         36         59         80         127         193         252         326         426         466         678         784         901         1203         1399         1614         2388         2791         3237         3740	39         41         48         56         68         82         114         158         172         208         259         317         360         415         495         575         671         1002         1147         1372         1537	53 58 84 115 148 209 307 410 498 634 725 995 1144 1316 1698 1974 2285 3390 3938 4609 5277	Fan





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