



SECTION 11

HPS MILLENNIUM™ GENERAL PURPOSE MEDIUM VOLTAGE DISTRIBUTION TRANSFORMERS

2.5 KV to 5KV Class Dry Type Single Phase and Three Phase

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MEDIUM VOLTAGE DISTRIBUTION TRANSFORMERS ENERGY EFFICIENCY REQUIREMENTS

In the past decades, greenhouse gas emissions and their effects on our planet have become the focus of many governments, agencies, companies and individuals. Energy generation is a major contributor to greenhouse gas emissions. In addition to widespread efforts to make energy generation more environmentally friendly, lowering energy consumption within most industrial and commercial facilities also is a goal. HPS proudly supports these initiatives by offering an Energy Efficient product basket that meets the current energy efficiency requirements both in US and Canada.

Improving the energy efficiency of new transformers is a primary objective for regulatory bodies in both the U.S. and Canada. As a result the legislation issued by the U.S. Department of Energy - DOE 10 CFR p.431 and the Canadian Energy Efficiency Act – Energy Efficiency Regulations (SOR/94-651) have strict energy efficiency requirements for low-voltage dry-type and medium-voltage dry-type distribution transformers.

HPS has a new line of energy efficient distribution transformers to meet the new DOE 10 CFR p.431 that comes in effect on January 1, 2016 also known as DOE 2016. More details about this product offer can be found in the HPS Millennium™ Medium Voltage Transformer Selection Guide (MILGMED15).

The Canadian product offering described in the current catalogue continues to comply with the CSA C802.2 energy efficiency requirements. This product line also meets the DOE energy efficiency levels that were in effect from January 1, 2010 to December 31, 2015.



DOE 2016 product please see the HPS Millennium™ Medium Voltage Transformer Selection Guide (MILGMED15)

FOR TERMINATION DETAILS SEE PAGE 242

FOR ACCESSORIES SEE PAGES 238 TO 241

Data subject to change without notice.



MEDIUM VOLTAGE DISTRIBUTION TRANSFORMER ENERGY EFFICIENCY GUIDELINES

Canada - Energy Efficiency Regulations

In Canada, all medium voltage dry-type distribution transformers (as defined below) manufactured after January 1st, 2005, must meet the minimum energy efficiency guidelines as per CSA C802.2.

The range of product covered by these standards are:

Primary Voltage BIL Rating		> 1.2 kV class (\geq 20 kV BIL)
Secondary (low) Voltage Line Current		Less than 4000 Amps
Dry-Type Rating	Single Phase	15-833 kVA
	Three Phase	15-7500 kVA
Frequency		60 Hz only

For transformers exempt from the Canadian Efficiency Regulations please refer to the following NRCan link:
<http://laws.justice.gc.ca/eng/sor-94-651/page-1.html>

Canadian Energy Efficiency Act - Energy Efficiency Regulations							
Efficiency Levels*							
Dry-Type Distribution Transformers - Medium Voltage							
Single Phase				Three Phase			
kVA	20 - 45 kV BIL Efficiency (%)	46 - 95 kV BIL Efficiency (%)	\geq 96 kV BIL Efficiency (%)	kVA	20 - 45 kV BIL Efficiency (%)	46 - 95 kV BIL Efficiency (%)	\geq 96 kV BIL Efficiency (%)
15	98.10	97.86	97.80	15	97.50	97.18	97.11
25	98.33	98.12	98.07	30	97.90	97.63	97.57
37.5	98.49	98.30	98.25	45	98.10	97.86	97.80
50	98.60	98.42	98.37	75	98.33	98.12	98.07
75	98.73	98.57	98.53	112.5	98.49	98.30	98.25
100	98.82	98.67	98.63	150	98.60	98.42	98.37
167	98.96	98.83	98.80	225	98.73	98.57	98.53
250	99.07	98.95	98.91	300	98.82	98.67	98.63
333	99.14	99.03	98.99	500	98.96	98.83	98.80
500	99.22	99.12	99.09	750	99.07	98.95	98.91
667	99.27	99.18	99.15	1000	99.14	99.03	98.99
833	99.31	99.23	99.20	1500	99.22	99.12	99.09
				2000	99.27	99.18	99.15
				2500	99.31	99.23	99.20
				3000	99.34	99.26	99.24
				3750	99.38	99.30	99.28
				5000	99.42	99.35	99.33
				7500	99.48	99.41	99.39

All efficiency values are at 50% of nameplate-rated load at 75°C reference temperature.

DOE 2016 product please see the HPS Millennium™ Medium Voltage Transformer Selection Guide (MILGMED15)

FOR TERMINATION DETAILS SEE PAGE 242

FOR ACCESSORIES SEE PAGES 238 TO 241



2.5KV to 5KV CLASS DISTRIBUTION TRANSFORMERS

HPS Millennium™ energy efficient medium voltage distribution transformers are designed for stepping down incoming higher voltage power to utilize voltages for commercial, institutional or industrial applications. The standard NEMA 3R ventilated construction is suitable for indoor or outdoor applications.

ALUMINUM & COPPER WOUND STANDARD SPECIFICATIONS



SINGLE PHASE



THREE PHASE

	15 to 333 kVA	15 to 1500 kVA
Efficiency (where applicable)	Meets U.S. DOE CFR Part 431 (2010) and the Canadian Efficiency Regulations (C802.2) efficiency levels at 50% of rated load. Efficiencies are calculated under a linear load profile.	
UL Listed	File: E147879	File: E147879
CSA Certified	File: LR3902	File: LR3902
Frequency	60 Hz	60 Hz
Insulation System	220°C (150°C rise) 180°C (115°C rise) on some units (Optional 115°C and 80°C rise available)	220°C (150°C rise) 180°C (115°C rise) on some units (Optional 115°C and 80°C rise available)
Enclosure Type	Heavy duty ventilated type 3R (Optional type 4, 4X and 12 available)	Heavy duty ventilated type 3R (Optional type 4, 4X and 12 available)
Enclosure Finish	ANSI 61 Grey, UL50	ANSI 61 Grey, UL50
Standard Primary Taps	Refer to wiring diagrams for details.	Refer to wiring diagrams for details.
Termination	Front accessible separate high and low voltage terminals; connectors suitable for aluminum and copper are provided for easy cable installation.	Front accessible separate high and low voltage terminals; connectors suitable for aluminum and copper are provided for easy cable installation.
Conduit Knock-Outs	Standard on most units up to 100 kVA (no knock-outs on Stainless Steel enclosures).	Standard on units up to 150 kVA (no knock-outs on Stainless Steel enclosures).
Impedance	Typically 2 to 5%	Typically 3 to 6%
Mounting	Floor or wall/ceiling mounting available. Refer to selection tables for details.	Floor or wall/ceiling mounting available. Refer to selection tables for details.
Seismic	Seismically certified in accordance with IBC 2009; Section 1613 Earthquake Loads, for $S_{DS} \leq 2.00g$, $z/h = 0$, and $I_p = 1.5$	Seismically certified in accordance with IBC 2009; Section 1613 Earthquake Loads, for $S_{DS} \leq 2.00g$, $z/h = 0$, and $I_p = 1.5$

Other voltages not listed in this section are available upon request for both aluminum and copper wound units. Please contact customer service for details, price and availability.

DOE 2016 product please see the HPS Millennium™ Medium Voltage Transformer Selection Guide (MILGMED15)

FOR TERMINATION DETAILS SEE PAGE 242

FOR ACCESSORIES SEE PAGES 238 TO 241

Data subject to change without notice.



SECTION 11

ALUMINUM WOUND, SINGLE PHASE, TYPE 3R STYLE ENCLOSURE



2400 Primary Volts

120/240 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 226 - 234)	Approx. Dimensions (Inches)			Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
15	MV1S015REAF	NH6	23.90	25.00	28.75	290	F or W *	SCD 6
25	MV1S025RE	NH6	23.90	25.00	28.75	350	F or W *	SCD 6
37.5	MV1S037RE	NH6	23.90	25.00	28.75	420	F or W *	SCD 6
50	MV1S050RE	NH3	26.00	25.00	38.00	570	F or W *	SCD 6
75	MV1S075RE	NH3	26.00	25.00	38.00	660	F or W *	SCD 6
100	MV1S100RE	NH4	32.00	29.50	41.00	810	F	SCD 6
150	MV1S150RE	NJ4	32.00	32.50	50.00	1280	F	SCD 6
167	MV1S167RE	NJ4	32.00	32.50	50.00	1320	F	SCD 6
250	MV1S250RE	NJ4	32.00	32.50	50.00	1560	F	SCD 6
333	MV1S333RE	NJ2	48.50	38.40	59.00	1980	F	SCD 6

For shielded units, please add the suffix "S" to the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.
REFER TO PAGES 238 TO 239 FOR DETAILS.

4160 Primary Volts

120/240 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 226 - 234)	Approx. Dimensions (Inches)			Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
15	MV1S015SEAF	NH6	23.90	25.00	28.75	290	F or W *	SCD 6
25	MV1S025SEAF	NH6	23.90	25.00	28.75	350	F or W *	SCD 6
37.5	MV1S037SE	NH6	23.90	25.00	28.75	420	F or W *	SCD 6
50	MV1S050SE	NH3	26.00	25.00	38.00	570	F or W *	SCD 6
75	MV1S075SE	NH3	26.00	25.00	38.00	660	F or W *	SCD 6
100	MV1S100SE	NH4	32.00	29.50	41.00	810	F	SCD 6
150	MV1S150SE	NJ4	32.00	32.50	50.00	1280	F	SCD 6
167	MV1S167SE	NJ4	32.00	32.50	50.00	1320	F	SCD 6
250	MV1S250SE	NJ4	32.00	32.50	50.00	1560	F	SCD 6
333	MV1S333SE	NJ2	48.50	38.40	59.00	1980	F	SCD 6

For shielded units, please add the suffix "S" to the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.
REFER TO PAGES 238 TO 239 FOR DETAILS.



COPPER WOUND, SINGLE PHASE, TYPE 3R STYLE ENCLOSURE



2400 Primary Volts

120/240 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 226 - 234)	Approx. Dimensions (Inches)			Approx. Weight (Lbs)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
15	MV1S015RECF	NH6	23.90	25.00	28.75	320	F or W *	SCD 6
25	MV1S025RECF	NH6	23.90	25.00	28.75	390	F or W *	SCD 6
37.5	MV1S037RECF	NH6	23.90	25.00	28.75	480	F or W *	SCD 6
50	MV1S050RECF	NH3	26.00	25.00	38.00	660	F or W *	SCD 6
75	MV1S075REC	NH3	26.00	25.00	38.00	770	F	SCD 6
100	MV1S100REC	NH4	32.00	29.50	41.00	970	F	SCD 6
150	MV1S150REC	NJ4	32.00	32.50	50.00	1300	F	SCD 6
167	MV1S167REC	NJ4	32.00	32.50	50.00	1440	F	SCD 6
250	MV1S250REC	NJ4	32.00	32.50	50.00	1800	F	SCD 6
333	MV1S333REC	NJ2	48.50	38.40	59.00	2280	F	SCD 6

For shielded units, please replace the letter "C" with a "K" in the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED. REFER TO PAGES 238 TO 239 FOR DETAILS.

4160 Primary Volts

120/240 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 226 - 234)	Approx. Dimensions (Inches)			Approx. Weight (Lbs)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
15	MV1S015SECF	NH6	23.90	25.00	28.75	320	F or W *	SCD 6
25	MV1S025SECF	NH6	23.90	25.00	28.75	390	F or W *	SCD 6
37.5	MV1S037SECF	NH6	23.90	25.00	28.75	480	F or W *	SCD 6
50	MV1S050SECF	NH3	26.00	25.00	38.00	660	F or W *	SCD 6
75	MV1S075SEC	NH3	26.00	25.00	38.00	770	F	SCD 6
100	MV1S100SEC	NH4	32.00	29.50	41.00	970	F	SCD 6
150	MV1S150SEC	NJ4	32.00	32.50	50.00	1300	F	SCD 6
167	MV1S167SEC	NJ4	32.00	32.50	50.00	1440	F	SCD 6
250	MV1S250SEC	NJ4	32.00	32.50	50.00	1800	F	SCD 6
333	MV1S333SEC	NJ2	48.50	38.40	59.00	2280	F	SCD 6

For shielded units, please replace the letter "C" with a "K" in the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED. REFER TO PAGES 238 TO 239 FOR DETAILS.

SECTION 11

DOE 2016 product please see the HPS Millennium™ Medium Voltage Transformer Selection Guide (MILGMED15)

FOR TERMINATION DETAILS SEE PAGE 242

FOR ACCESSORIES SEE PAGES 238 TO 241



ALUMINUM WOUND, THREE PHASE, TYPE 3R STYLE ENCLOSURE



2400 Delta Primary Volts

208Y/120 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 226 - 234)	Approx. Dimensions (Inches)			Approx. Weight (Lbs)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
*15	MV3S015RBAF	NH6	23.90	25.00	28.75	350	F or W *	SCD 8
*30	MV3S030RBAF	NH6	23.90	25.00	28.75	425	F or W *	SCD 10
45	MV3S045RBAF	NH3	26.00	25.00	38.00	600	F or W *	SCD 10
75	MV3S075RB	NH4	32.00	29.50	41.00	800	F	SCD 10
112.5	MV3S112RB	NH4	32.00	29.50	41.00	1200	F	SCD 10
150	MV3S150RB	NJ1	39.50	34.00	51.50	1400	F	SCD 10
225	MV3S225RB	NJ1	39.50	34.00	51.50	1600	F	SCD 10
300	MV3S300RB	NJ1	39.50	34.00	51.50	1800	F	SCD 10
500	MV3S500RB	NJ2	48.50	38.40	59.00	2600	F	SCD 10
750	MV3S750RB	NJ6	64.00	44.40	71.00	4200	F	SCD 10
1000	MV3S1000RB	NJ6	64.00	44.40	71.00	4500	F	SCD 10
1250	MV3S1250RB	NJ6	64.00	44.40	71.00	5300	F	SCD 10
1500	MV3S1500RB	NJ7	64.00	51.40	75.00	6300	F	SCD 10

* Aluminum/Copper units have 115°C temperature rise.
For shielded units, please add the suffix "S" to the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.
REFER TO PAGES 238 TO 239 FOR DETAILS.

2400 Delta Primary Volts

480Y/277 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 226 - 234)	Approx. Dimensions (Inches)			Approx. Weight (Lbs)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
*15	MV3S015RKAF	NH6	23.90	25.00	28.75	350	F or W *	SCD 8
*30	MV3S030RKAF	NH6	23.90	25.00	28.75	425	F or W *	SCD 10
45	MV3S045RKAF	NH3	26.00	25.00	38.00	600	F or W *	SCD 10
75	MV3S075RK	NH4	32.00	29.50	41.00	800	F	SCD 10
112.5	MV3S112RK	NH4	32.00	29.50	41.00	1200	F	SCD 10
150	MV3S150RK	NJ1	39.50	34.00	51.50	1400	F	SCD 10
225	MV3S225RK	NJ1	39.50	34.00	51.50	1600	F	SCD 10
300	MV3S300RK	NJ1	39.50	34.00	51.50	1800	F	SCD 10
500	MV3S500RK	NJ2	48.50	38.40	59.00	2600	F	SCD 10
750	MV3S750RK	NJ6	64.00	44.40	71.00	4200	F	SCD 10
1000	MV3S1000RK	NJ6	64.00	44.40	71.00	4500	F	SCD 10
1250	MV3S1250RK	NJ6	64.00	44.40	71.00	5300	F	SCD 10
1500	MV3S1500RK	NJ7	64.00	51.40	75.00	6300	F	SCD 10

* Aluminum/Copper units have 115°C temperature rise.
For shielded units, please add the suffix "S" to the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.
REFER TO PAGES 238 TO 239 FOR DETAILS.

2400 Delta Primary Volts

600Y/347 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 226 - 234)	Approx. Dimensions (Inches)			Approx. Weight (Lbs)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
*15	MV3S015RPAF	NH6	23.90	25.00	28.75	350	F or W *	SCD 8
*30	MV3S030RPAF	NH6	23.90	25.00	28.75	425	F or W *	SCD 10
45	MV3S045RPAF	NH3	26.00	25.00	38.00	600	F or W *	SCD 10
75	MV3S075RP	NH4	32.00	29.50	41.00	800	F	SCD 10
112.5	MV3S112RP	NH4	32.00	29.50	41.00	1200	F	SCD 10
150	MV3S150RP	NJ1	39.50	34.00	51.50	1400	F	SCD 10
225	MV3S225RP	NJ1	39.50	34.00	51.50	1600	F	SCD 10
300	MV3S300RP	NJ1	39.50	34.00	51.50	1800	F	SCD 10
500	MV3S500RP	NJ2	48.50	38.40	59.00	2600	F	SCD 10
750	MV3S750RP	NJ6	64.00	44.40	71.00	4200	F	SCD 10
1000	MV3S1000RP	NJ6	64.00	44.40	71.00	4600	F	SCD 10
1250	MV3S1250RP	NJ6	64.00	44.40	71.00	5200	F	SCD 10
1500	MV3S1500RP	NJ7	64.00	51.40	75.00	6300	F	SCD 10

* Aluminum/Copper units have 115°C temperature rise.
For shielded units, please add the suffix "S" to the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.
REFER TO PAGES 239 TO 239 FOR DETAILS.

DOE 2016 product please see the HPS Millennium™ Medium Voltage Transformer Selection Guide (MILGMED15)

FOR TERMINATION DETAILS SEE PAGE 242

FOR ACCESSORIES SEE PAGES 238 TO 241



ALUMINUM WOUND, THREE PHASE, TYPE 3R STYLE ENCLOSURE



4160 Delta Primary Volts

208Y/120 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 226 - 234)	Approx. Dimensions (Inches)			Approx. Weight (Lbs)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
*15	MV3S015SBAF	NH6	23.90	25.00	28.75	350	F or W *	SCD 8
*30	MV3S030SBAF	NH6	23.90	25.00	28.75	425	F or W *	SCD 10
45	MV3S045SBAF	NH3	26.00	25.00	38.00	600	F or W *	SCD 10
75	MV3S075SBAF	NH4	32.00	29.50	41.00	800	F	SCD 10
112.5	MV3S112SBAF	NH4	32.00	29.50	41.00	1200	F	SCD 10
150	MV3S150SB	NJ1	39.50	34.00	51.50	1400	F	SCD 10
225	MV3S225SB	NJ1	39.50	34.00	51.50	1600	F	SCD 10
300	MV3S300SB	NJ1	39.50	34.00	51.50	1800	F	SCD 10
500	MV3S500SB	NJ2	48.50	38.40	59.00	2600	F	SCD 10
750	MV3S750SB	NJ6	64.00	44.40	71.00	4200	F	SCD 10
1000	MV3S1000SB	NJ6	64.00	44.40	71.00	4600	F	SCD 10
1250	MV3S1250SB	NJ6	64.00	44.40	71.00	5300	F	SCD 10
1500	MV3S1500SB	NJ7	64.00	51.40	75.00	6300	F	SCD 10

* Aluminum/Copper units have 115°C temperature rise.
For shielded units, please add the suffix "S" to the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.
REFER TO PAGES 238 TO 239 FOR DETAILS.

4160 Delta Primary Volts

480Y/277 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 226 - 234)	Approx. Dimensions (Inches)			Approx. Weight (Lbs)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
*15	MV3S015SKAF	NH6	23.90	25.00	28.75	350	F or W *	SCD 8
*30	MV3S030SKAF	NH6	23.90	25.00	28.75	425	F or W *	SCD 10
45	MV3S045SKAF	NH3	26.00	25.00	38.00	600	F or W *	SCD 10
75	MV3S075SKAF	NH4	32.00	29.50	41.00	800	F	SCD 10
112.5	MV3S112SKAF	NH4	32.00	29.50	41.00	1200	F	SCD 10
150	MV3S150SK	NJ1	39.50	34.00	51.50	1400	F	SCD 10
225	MV3S225SK	NJ1	39.50	34.00	51.50	1600	F	SCD 10
300	MV3S300SK	NJ1	39.50	34.00	51.50	1800	F	SCD 10
500	MV3S500SK	NJ2	48.50	38.40	59.00	2600	F	SCD 10
750	MV3S750SK	NJ6	64.00	44.40	71.00	4200	F	SCD 10
1000	MV3S1000SK	NJ6	64.00	44.40	71.00	4500	F	SCD 10
1250	MV3S1250SK	NJ6	64.00	44.40	71.00	5300	F	SCD 10
1500	MV3S1500SK	NJ7	64.00	51.40	75.00	6300	F	SCD 10

* Aluminum/Copper units have 115°C temperature rise.
For shielded units, please add the suffix "S" to the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.
REFER TO PAGES 238 TO 239 FOR DETAILS.

4160 Delta Primary Volts

600Y/347 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 226 - 234)	Approx. Dimensions (Inches)			Approx. Weight (Lbs)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
*15	MV3S015SPAF	NH6	23.90	25.00	28.75	350	F or W *	SCD 8
*30	MV3S030SPAF	NH6	23.90	25.00	28.75	425	F or W *	SCD 10
45	MV3S045SPAF	NH3	26.00	25.00	38.00	600	F or W *	SCD 10
75	MV3S075SPAF	NH4	32.00	29.50	41.00	800	F	SCD 10
112.5	MV3S112SPAF	NH4	32.00	29.50	41.00	1200	F	SCD 10
150	MV3S150SP	NJ1	39.50	34.00	51.50	1400	F	SCD 10
225	MV3S225SP	NJ1	39.50	34.00	51.50	1600	F	SCD 10
300	MV3S300SP	NJ1	39.50	34.00	51.50	1800	F	SCD 10
500	MV3S500SP	NJ2	48.50	38.40	59.00	2600	F	SCD 10
750	MV3S750SP	NJ6	64.00	44.40	71.00	4200	F	SCD 10
1000	MV3S1000SP	NJ6	64.00	44.40	71.00	4600	F	SCD 10
1250	MV3S1250SP	NJ6	64.00	44.40	71.00	5200	F	SCD 10
1500	MV3S1500SP	NJ7	64.00	51.40	75.00	6300	F	SCD 10

* Aluminum/Copper units have 115°C temperature rise.
For shielded units, please add the suffix "S" to the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.
REFER TO PAGES 238 TO 239 FOR DETAILS.

DOE 2016 product please see the HPS Millennium™ Medium Voltage Transformer Selection Guide (MILGMED15)

FOR TERMINATION DETAILS SEE PAGE 242

FOR ACCESSORIES SEE PAGES 238 TO 241



SECTION 11

COPPER WOUND, THREE PHASE, TYPE 3R STYLE ENCLOSURE



2400 Delta Primary Volts

208Y/120 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 226 - 234)	Approx. Dimensions (Inches)			Approx. Weight (Lbs)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
15	MV3S015RBCF	NH6	23.90	25.00	28.75	400	F or W *	SCD 8
30	MV3S030RBCF	NH6	23.90	25.00	28.75	500	F or W *	SCD 10
45	MV3S045RBCF	NH3	26.00	25.00	38.00	600	F or W *	SCD 10
75	MV3S075RBCF	NH4	32.00	29.50	41.00	900	F	SCD 10
112.5	MV3S112RBCF	NH4	32.00	29.50	41.00	1100	F	SCD 10
150	MV3S150RBC	NJ1	39.50	34.00	51.50	1500	F	SCD 10
225	MV3S225RBC	NJ1	39.50	34.00	51.50	1700	F	SCD 10
300	MV3S300RBC	NJ1	39.50	34.00	51.50	1900	F	SCD 10
500	MV3S500RBC	NJ2	48.50	38.40	59.00	3000	F	SCD 10
750	MV3S750RBC	NJ6	64.00	44.40	71.00	4200	F	SCD 10
1000	MV3S1000RBC	NJ6	64.00	44.40	71.00	4800	F	SCD 10
1250	MV3S1250RBC	NJ6	64.00	44.40	71.00	6200	F	SCD 10
1500	MV3S1500RBC	NJ7	64.00	51.40	75.00	6600	F	SCD 10

For shielded units, please replace the letter "C" with a "K" in the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.
REFER TO PAGES 238 TO 239 FOR DETAILS.

2400 Delta Primary Volts

480Y/277 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 226 - 234)	Approx. Dimensions (Inches)			Approx. Weight (Lbs)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
15	MV3S015RKCF	NH6	23.90	25.00	28.75	400	F or W *	SCD 8
30	MV3S030RKCF	NH6	23.90	25.00	28.75	500	F or W *	SCD 10
45	MV3S045RKCF	NH3	26.00	25.00	38.00	600	F or W *	SCD 10
75	MV3S075RKCF	NH4	32.00	29.50	41.00	900	F	SCD 10
112.5	MV3S112RKCF	NH4	32.00	29.50	41.00	1100	F	SCD 10
150	MV3S150RKCF	NJ1	39.50	34.00	51.50	1500	F	SCD 10
225	MV3S225RKCF	NJ1	39.50	34.00	51.50	1600	F	SCD 10
300	MV3S300RKCF	NJ1	39.50	34.00	51.50	1900	F	SCD 10
500	MV3S500RKCF	NJ2	48.50	38.40	59.00	3000	F	SCD 10
750	MV3S750RKCF	NJ6	64.00	44.40	71.00	4200	F	SCD 10
1000	MV3S1000RKCF	NJ6	64.00	44.40	71.00	4800	F	SCD 10
1250	MV3S1250RKCF	NJ6	64.00	44.40	71.00	6200	F	SCD 10
1500	MV3S1500RKCF	NJ7	64.00	51.40	75.00	6600	F	SCD 10

For shielded units, please replace the letter "C" with a "K" in the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.
REFER TO PAGES 238 TO 239 FOR DETAILS.

2400 Delta Primary Volts

600Y/347 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 226 - 234)	Approx. Dimensions (Inches)			Approx. Weight (Lbs)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
15	MV3S015RPCF	NH6	23.90	25.00	28.75	400	F or W *	SCD 8
30	MV3S030RPCF	NH6	23.90	25.00	28.75	500	F or W *	SCD 10
45	MV3S045RPCF	NH3	26.00	25.00	38.00	600	F or W *	SCD 10
75	MV3S075RPCF	NH4	32.00	29.50	41.00	900	F	SCD 10
112.5	MV3S112RPCF	NH4	32.00	29.50	41.00	1100	F	SCD 10
150	MV3S150RPC	NJ1	39.50	34.00	51.50	1500	F	SCD 10
225	MV3S225RPC	NJ1	39.50	34.00	51.50	1600	F	SCD 10
300	MV3S300RPC	NJ1	39.50	34.00	51.50	1900	F	SCD 10
500	MV3S500RPC	NJ2	48.50	38.40	59.00	2900	F	SCD 10
750	MV3S750RPC	NJ6	64.00	44.40	71.00	4200	F	SCD 10
1000	MV3S1000RPC	NJ6	64.00	44.40	71.00	4800	F	SCD 10
1250	MV3S1250RPC	NJ6	64.00	44.40	71.00	6200	F	SCD 10
1500	MV3S1500RPC	NJ7	64.00	51.40	75.00	6600	F	SCD 10

For shielded units, please replace the letter "C" with a "K" in the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.
REFER TO PAGES 238 TO 239 FOR DETAILS.

DOE 2016 product please see the HPS Millennium™ Medium Voltage Transformer Selection Guide (MILGMED15)

FOR TERMINATION DETAILS SEE PAGE 242

FOR ACCESSORIES SEE PAGES 238 TO 241



COPPER WOUND, THREE PHASE, TYPE 3R STYLE ENCLOSURE



4160 Delta Primary Volts

208Y/120 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 226 - 234)	Approx. Dimensions (Inches)			Approx. Weight (Lbs)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
15	MV3S015SBCF	NH6	23.90	25.00	28.75	400	F or W *	SCD 8
30	MV3S030SBCF	NH6	23.90	25.00	28.75	500	F or W *	SCD 10
45	MV3S045SBCF	NH3	26.00	25.00	38.00	600	F or W *	SCD 10
75	MV3S075SBCF	NH4	32.00	29.50	41.00	900	F	SCD 10
112.5	MV3S112SBCF	NH4	32.00	29.50	41.00	1100	F	SCD 10
150	MV3S150SBCF	NJ1	39.50	34.00	51.50	1500	F	SCD 10
225	MV3S225SBC	NJ1	39.50	34.00	51.50	1700	F	SCD 10
300	MV3S300SBC	NJ1	39.50	34.00	51.50	1900	F	SCD 10
500	MV3S500SBC	NJ2	48.50	38.40	59.00	3000	F	SCD 10
750	MV3S750SBC	NJ6	64.00	44.40	71.00	4200	F	SCD 10
1000	MV3S1000SBC	NJ6	64.00	44.40	71.00	4800	F	SCD 10
1250	MV3S1250SBC	NJ6	64.00	44.40	71.00	6200	F	SCD 10
1500	MV3S1500SBC	NJ7	64.00	51.40	75.00	6600	F	SCD 10

For shielded units, please replace the letter "C" with a "K" in the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED. REFER TO PAGES 238 TO 239 FOR DETAILS.

4160 Delta Primary Volts

480Y/277 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 226 - 234)	Approx. Dimensions (Inches)			Approx. Weight (Lbs)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
15	MV3S015SKCF	NH6	23.90	25.00	28.75	400	F or W *	SCD 8
30	MV3S030SKCF	NH6	23.90	25.00	28.75	500	F or W *	SCD 10
45	MV3S045SKCF	NH3	26.00	25.00	38.00	600	F or W *	SCD 10
75	MV3S075SKCF	NH4	32.00	29.50	41.00	900	F	SCD 10
112.5	MV3S112SKCF	NH4	32.00	29.50	41.00	1100	F	SCD 10
150	MV3S150SKCF	NJ1	39.50	34.00	51.50	1500	F	SCD 10
225	MV3S225SKCF	NJ1	39.50	34.00	51.50	1600	F	SCD 10
300	MV3S300SKC	NJ1	39.50	34.00	51.50	1900	F	SCD 10
500	MV3S500SKC	NJ2	48.50	38.40	59.00	3000	F	SCD 10
750	MV3S750SKC	NJ6	64.00	44.40	71.00	4200	F	SCD 10
1000	MV3S1000SKC	NJ6	64.00	44.40	71.00	4800	F	SCD 10
1250	MV3S1250SKC	NJ6	64.00	44.40	71.00	6200	F	SCD 10
1500	MV3S1500SKC	NJ7	64.00	51.40	75.00	6600	F	SCD 10

For shielded units, please replace the letter "C" with a "K" in the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED. REFER TO PAGES 238 TO 239 FOR DETAILS.

4160 Delta Primary Volts

600Y/347 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 226 - 234)	Approx. Dimensions (Inches)			Approx. Weight (Lbs)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
15	MV3S015SPCF	NH6	23.90	25.00	28.75	400	F or W *	SCD 8
30	MV3S030SPCF	NH6	23.90	25.00	28.75	500	F or W *	SCD 10
45	MV3S045SPCF	NH3	26.00	25.00	38.00	600	F or W *	SCD 10
75	MV3S075SPCF	NH4	32.00	29.50	41.00	900	F	SCD 10
112.5	MV3S112SPCF	NH4	32.00	29.50	41.00	1100	F	SCD 10
150	MV3S150SPCF	NJ1	39.50	34.00	51.50	1500	F	SCD 10
225	MV3S225SPCF	NJ1	39.50	34.00	51.50	1600	F	SCD 10
300	MV3S300SPC	NJ1	39.50	34.00	51.50	1900	F	SCD 10
500	MV3S500SPC	NJ2	48.50	38.40	59.00	2900	F	SCD 10
750	MV3S750SPC	NJ6	64.00	44.40	71.00	4200	F	SCD 10
1000	MV3S1000SPC	NJ6	64.00	44.40	71.00	4800	F	SCD 10
1250	MV3S1250SPC	NJ6	64.00	44.40	71.00	6200	F	SCD 10
1500	MV3S1500SPC	NJ7	64.00	51.40	75.00	6600	F	SCD 10

For shielded units, please replace the letter "C" with a "K" in the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED. REFER TO PAGES 238 TO 239 FOR DETAILS.

DOE 2016 product please see the HPS Millennium™ Medium Voltage Transformer Selection Guide (MILGMED15)

FOR TERMINATION DETAILS SEE PAGE 242

FOR ACCESSORIES SEE PAGES 238 TO 241

