SECTION 4

STANDARD & ENERGY EFFICIENT DRIVE ISOLATION TRANSFORMERS

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THREE PHASE, DRIVE ISOLATION TRANSFORMERS

With today's technological advances in solid-state power control devices, the use of AC and DC variable speed drives has proliferated in many industrial markets. General purpose distribution transformers are not adequate for this type of application.

HPS Drive Isolation Transformers are designed to meet the rugged demands of both AC and DC variable speed drives and also to provide the required voltage change. The separate primary and secondary windings provide electrical isolation between the incoming line and the SCR load. The windings are designed to withstand overcurrent of 150% of the rated load for 60 seconds or 200% of the rated load for 30 seconds. (A duty cycle of one start for every two hours is permitted.)

Drive Isolation Transformers are sized to match standard motor horsepower and voltage ratings. Standard sizes range from 5 to 600 HP in six standard voltages. Non-standard sizes and voltages are available upon request.

SELECTION INSTRUCTIONS

Select the Drive Isolation Transformer according to the recommendations from the motor drive system manufacturer or supplier. If this information is unavailable, use the table below as a guide for selecting the transformer kVA for a required motor horsepower.

Motor H.P.	Transformer kVA
5	7.5
7.5	11
10	14
15	20
20	27
25	34
30	40
40	51
50	63
60	75

Motor H.P.	Transformer kVA
75	93
100	118
125	145
150	175
200	220
250	275
300	330
400	440
500	550
600	660

For termination details see page 131.

For accessories see pages 264 to 267.

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ALUMINUM AND COPPER WOUND FEATURES

THREE PHASE STANDARD SPECIFICATIONS

	7.5 to 175 kVA	220 to 660 kVA
UL Listed	File: E112313	File: E112313
CSA Certified	File: LR3902	File: LR3902
Frequency	60 Hz	60 Hz
Insulation System,	220°C (150°C rise) 200°C (130°C rise) on some Copper units up to 40kVA	220°C (150°C rise) (Optional 115°C and 80°C rise available)
Enclosure Type	Heavy Duty Ventilated NEMA Type 3R Optional NEMA 4, 4X(stainless steel) and 12	Heavy Duty Ventilated NEMA Type 3R Optional NEMA 4, 4X(stainless steel) and 12
Enclosure Finish	ANSI 61 Grey, UL50	ANSI 61 Grey, UL50
Neutral	Neutral terminal for field connection (on applicable units).	Neutral terminal for field connection (on applicable units).
Standard Primary Taps	Refer to wiring diagrams for details.	Refer to wiring diagrams for details.
Termination	Front accessible separate high and low voltage terminations; suitable for copper and aluminum are provided for easy cable installation.	Front accessible separate high and low voltage terminations, suitable for copper and aluminum are provided for easy cable installation.
Thermostat	Standard on all units.	Standard on all units.
Conduit Knock-Outs	Standard on all units.	None
Impedance	Typically 3 to 6%	Typically 3 to 6%
Mounting	Floor mounting available on all units. Wall & ceiling mount available on units up to 750 lbs. Refer to selection tables for details.	Floor mounting only.
Seismic	Meets Occupancy Category III Ip=1.25 for Ss=1.0g per IBC 2006; section 1613, earthquake loads and NBCC 2005 for ground level installations only for all locations in North America.	Meets Occupancy Category III Ip=1.25 for Ss=1.0g per IBC 2006; section 1613, earthquake loads and NBCC 2005 for ground level installations only for all locations in North America.
Short Circuit Withstand	Meets UL and CSA short circuit withstand requirements.	Meets UL and CSA short circuit withstand requirements.

For termination details see page 131.

For accessories see pages 264 to 267.

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Selection Tables

Listed below are our standard voltages. Other primary and secondary voltages available are 240, 380 and 600.

ALUMINUM WOUND, THREE PHASE

208 Delta Primary Volts 480Y Secondary Volts 60 Hz

kVA	Catalog Number	Case Style (Pages 256 - 263)	Dimensions Width	Dimensions Depth	Dimensions Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 269 - 281)
7.5	**DM007BK**	NH5	19.40	20.20	21.50	150	F or W *	SCD 8
11	**DM011BK**	NH5	19.40	20.20	21.50	160	F or W *	SCD 8
14	**DM014BK**	NH5	19.40	20.20	21.50	170	F or W *	SCD 8
20	**DM020BK**	NH6	23.90	25.00	28.75	240	F or W *	SCD 7
27	**DM027BK**	NH6	23.90	25.00	28.75	300	F or W *	SCD 7
34	**DM034BK**	NH6	23.90	25.00	28.75	330	F or W *	SCD 7
40	**DM040BK**	NH6	23.90	25.00	28.75	350	F or W *	SCD 7
51	**DM051BK**	NH6	23.90	25.00	28.75	430	F or W *	SCD 7
63	**DM063BK**	NH3	26.00	25.00	38.00	530	F or W *	SCD 7
75	**DM075BK**	NH3	26.00	25.00	38.00	580	F or W *	SCD 7
93	**DM093BK**	NH3	26.00	25.00	38.00	630	F or W *	SCD 7
118	**DM118BK**	NH3	26.00	25.00	38.00	730	F or W *	SCD 7
145	**DM145BK**	NH4	32.00	29.50	41.00	830	F	SCD 7
175	**DM175BK**	NH4	32.00	29.50	41.00	930	F	SCD 7
220	**DM220BK**	NH4	32.00	29.50	41.00	1350	F	SCD 9
275	**DM275BK**	NJ1	39.50	34.00	51.50	1500	F	SCD 9
330	**DM330BK**	NJ1	39.50	34.00	51.50	1700	F	SCD 9
440	**DM440BK**	NJ2	48.50	38.40	59.00	2100	F	SCD 10
550	**DM550BK**	NJ2	48.50	38.40	59.00	2350	F	SCD 10
660	**DM660BK**	NJ3	51.50	43.40	66.00	2900	F	SCD 10

For shielded units, please add the suffix "S" to the above part numbers. (i.e. DM075BKS)

*Wall mounting kit and/or drip plate kit required. Refer to pages 264 to 266 for details.

230 Delta Primary Volts 230Y Secondary Volts 60 Hz

kVA	Catalog Number	Case Style (Pages 256 - 263)	Dimensions Width	Dimensions Depth	Dimensions Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 269 - 281)
7.5	**DM007CC**	NH5	19.40	20.20	21.50	150	F or W *	SCD 8
11	**DM011CC**	NH5	19.40	20.20	21.50	160	F or W *	SCD 8
14	**DM014CC**	NH5	19.40	20.20	21.50	170	F or W *	SCD 8
20	**DM020CC**	NH6	23.90	25.00	28.75	240	F or W *	SCD 7
27	**DM027CC**	NH6	23.90	25.00	28.75	300	F or W *	SCD 7
34	**DM034CC**	NH6	23.90	25.00	28.75	330	F or W *	SCD 7
40	**DM040CC**	NH6	23.90	25.00	28.75	350	F or W *	SCD 7
51	**DM051CC**	NH6	23.90	25.00	28.75	430	F or W *	SCD 7
63	**DM063CC**	NH3	26.00	25.00	38.00	530	F or W *	SCD 7
75	**DM075CC**	NH3	26.00	25.00	38.00	580	F or W *	SCD 7
93	**DM093CC**	NH3	26.00	25.00	38.00	630	F or W *	SCD 7
118	**DM118CC**	NH3	26.00	25.00	38.00	730	F or W *	SCD 7
145	**DM145CC**	NH4	32.00	29.50	41.00	830	F	SCD 7
175	**DM175CC**	NH4	32.00	29.50	41.00	930	F	SCD 7
220	**DM220CC**	NH4	32.00	29.50	41.00	1350	F	SCD 9
275	**DM275CC**	NJ1	39.50	34.00	51.50	1500	F	SCD 9
330	**DM330CC**	NJ1	39.50	34.00	51.50	1700	F	SCD 9
440	**DM440CC**	NJ2	48.50	38.40	59.00	2100	F	SCD 10
550	**DM550CC**	NJ2	48.50	38.40	59.00	2350	F	SCD 10
660	**DM660CC**	NJ3	51.50	43.40	66.00	2900	F	SCD 10

For shielded units, please add the suffix "S" to the above part numbers. (i.e. DM075CCS)

*Wall mounting kit and/or drip plate kit required. Refer to pages 264 to 266 for details.

Products listed on this page are available as 'CE Mark' products. Please consult our sales office.

For termination details see page 131.

For accessories see pages 264 to 267.

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Selection Tables

Listed below are our standard voltages. Other primary and secondary voltages available are 240, 380 and 600.

ALUMINUM WOUND, THREE PHASE

460 Delta Primary Volts 230Y Secondary Volts 60 Hz

kVA	Catalog Number	Case Style (Pages 256 - 263)	Dimensions Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 269 - 281)
7.5	**DM007JC**	NH5	19.40	20.20	21.50	150	F or W *	SCD 8
11	**DM011JC**	NH5	19.40	20.20	21.50	160	F or W *	SCD 8
14	**DM014JC**	NH5	19.40	20.20	21.50	170	F or W *	SCD 8
20	**DM020JC**	NH6	23.90	25.00	28.75	240	F or W *	SCD 7
27	**DM027JC**	NH6	23.90	25.00	28.75	300	F or W *	SCD 7
34	**DM034JC**	NH6	23.90	25.00	28.75	330	F or W *	SCD 7
40	**DM040JC**	NH6	23.90	25.00	28.75	350	F or W *	SCD 7
51	**DM051JC**	NH6	23.90	25.00	28.75	430	F or W *	SCD 7
63	**DM063JC**	NH3	26.00	25.00	38.00	530	F or W *	SCD 7
75	**DM075JC**	NH3	26.00	25.00	38.00	580	F or W *	SCD 7
93	**DM093JC**	NH3	26.00	25.00	38.00	630	F or W *	SCD 7
118	**DM118JC**	NH3	26.00	25.00	38.00	730	F or W *	SCD 7
145	**DM145JC**	NH4	32.00	29.50	41.00	830	F	SCD 7
175	**DM175JC**	NH4	32.00	29.50	41.00	930	F	SCD 7
220	**DM220JC**	NH4	32.00	29.50	41.00	1350	F	SCD 9
275	**DM275JC**	NJ1	39.50	34.00	51.50	1500	F	SCD 9
330	**DM330JC**	NJ1	39.50	34.00	51.50	1700	F	SCD 9
440	**DM440JC**	NJ2	48.50	38.40	59.00	2100	F	SCD 10
550	**DM550JC**	NJ2	48.50	38.40	59.00	2350	F	SCD 10
660	**DM660JC**	NJ3	51.50	43.40	66.00	2900	F	SCD 10

For shielded units, please add the suffix "S" to the above part numbers. (i.e. DM075JCS)

*Wall mounting kit and/or drip plate kit required. Refer to pages 264 to 266 for details.

460 Delta Primary Volts 400Y Secondary Volts 60 Hz

kVA	Catalog Number	Case Style (Pages 256 - 263)	Dimensions Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 269 - 281)
7.5	**DM007JH**	NH5	19.40	20.20	21.50	150	F or W *	SCD 8
11	**DM011JH**	NH5	19.40	20.20	21.50	160	F or W *	SCD 8
14	**DM014JH**	NH5	19.40	20.20	21.50	170	F or W *	SCD 8
20	**DM020JH**	NH6	23.90	25.00	28.75	240	F or W *	SCD 7
27	**DM027JH**	NH6	23.90	25.00	28.75	300	F or W *	SCD 7
34	**DM034JH**	NH6	23.90	25.00	28.75	330	F or W *	SCD 7
40	**DM040JH**	NH6	23.90	25.00	28.75	350	F or W *	SCD 7
51	**DM051JH**	NH6	23.90	25.00	28.75	430	F or W *	SCD 7
63	**DM063JH**	NH3	26.00	25.00	38.00	530	F or W *	SCD 7
75	**DM075JH**	NH3	26.00	25.00	38.00	580	F or W *	SCD 7
93	**DM093JH**	NH3	26.00	25.00	38.00	630	F or W *	SCD 7
118	**DM118JH**	NH3	26.00	25.00	38.00	730	F or W *	SCD 7
145	**DM145JH**	NH4	32.00	29.50	41.00	830	F	SCD 7
175	**DM175JH**	NH4	32.00	29.50	41.00	930	F	SCD 7
220	**DM220JH**	NH4	32.00	29.50	41.00	1350	F	SCD 9
275	**DM275JH**	NJ1	39.50	34.00	51.50	1500	F	SCD 9
330	**DM330JH**	NJ1	39.50	34.00	51.50	1700	F	SCD 9
440	**DM440JH**	NJ2	48.50	38.40	59.00	2100	F	SCD 10
550	**DM550JH**	NJ2	48.50	38.40	59.00	2350	F	SCD 10
660	**DM660JH**	NJ3	51.50	43.40	66.00	2900	F	SCD 10

For shielded units, please add the suffix "S" to the above part numbers. (i.e. DM075JHS)

*Wall mounting kit and/or drip plate kit required. Refer to pages 264 to 266 for details.

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For termination details see page 131.

For accessories see pages 264 to 267.

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Selection Tables

Listed below are our standard voltages. Other primary and secondary voltages available are 240, 380 and 600.

ALUMINUM WOUND, THREE PHASE

460 Delta Primary Volts 460Y Secondary Volts 60 Hz

kVA	Catalog Number	Case Style (Pages 256 - 263)	Dimensions Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 269 - 281)
7.5	**DM007JJ**	NH5	19.40	20.20	21.50	150	F or W *	SCD 8
11	**DM011JJ**	NH5	19.40	20.20	21.50	160	F or W *	SCD 8
14	**DM014JJ**	NH5	19.40	20.20	21.50	170	F or W *	SCD 8
20	**DM020JJ**	NH6	23.90	25.00	28.75	240	F or W *	SCD 7
27	**DM027JJ**	NH6	23.90	25.00	28.75	300	F or W *	SCD 7
34	**DM034JJ**	NH6	23.90	25.00	28.75	330	F or W *	SCD 7
40	**DM040JJ**	NH6	23.90	25.00	28.75	350	F or W *	SCD 7
51	**DM051JJ**	NH6	23.90	25.00	28.75	430	F or W *	SCD 7
63	**DM063JJ**	NH3	26.00	25.00	38.00	530	F or W *	SCD 7
75	**DM075JJ**	NH3	26.00	25.00	38.00	580	F or W *	SCD 7
93	**DM093JJ**	NH3	26.00	25.00	38.00	630	F or W *	SCD 7
118	**DM118JJ**	NH3	26.00	25.00	38.00	730	F or W *	SCD 7
145	**DM145JJ**	NH4	32.00	29.50	41.00	830	F	SCD 7
175	**DM175JJ**	NH4	32.00	29.50	41.00	930	F	SCD 7
220	**DM220JJ**	NH4	32.00	29.50	41.00	1350	F	SCD 9
275	**DM275JJ**	NJ1	39.50	34.00	51.50	1500	F	SCD 9
330	**DM330JJ**	NJ1	39.50	34.00	51.50	1700	F	SCD 9
440	**DM440JJ**	NJ2	48.50	38.40	59.00	2100	F	SCD 10
550	**DM550JJ**	NJ2	48.50	38.40	59.00	2350	F	SCD 10
660	**DM660JJ**	NJ3	51.50	43.40	66.00	2900	F	SCD 10

For shielded units, please add the suffix "S" to the above part numbers. (i.e. DM075JJS)

*Wall mounting kit and/or drip plate kit required. Refer to pages 264 to 266 for details.

480 Delta Primary Volts 240Y Secondary Volts 60 Hz

kVA	Catalog Number	Case Style (Pages 256 - 263)	Dimensions Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 269 - 281)
7.5	**DM007KD**	NH5	19.40	20.20	21.50	150	F or W *	SCD 8
11	**DM011KD**	NH5	19.40	20.20	21.50	160	F or W *	SCD 8
14	**DM014KD**	NH5	19.40	20.20	21.50	170	F or W *	SCD 8
20	**DM020KD**	NH6	23.90	25.00	28.75	240	F or W *	SCD 7
27	**DM027KD**	NH6	23.90	25.00	28.75	300	F or W *	SCD 7
34	**DM034KD**	NH6	23.90	25.00	28.75	330	F or W *	SCD 7
40	**DM040KD**	NH6	23.90	25.00	28.75	350	F or W *	SCD 7
51	**DM051KD**	NH6	23.90	25.00	28.75	430	F or W *	SCD 7
63	**DM063KD**	NH3	26.00	25.00	38.00	530	F or W *	SCD 7
75	**DM075KD**	NH3	26.00	25.00	38.00	580	F or W *	SCD 7
93	**DM093KD**	NH3	26.00	25.00	38.00	630	F or W *	SCD 7
118	**DM118KD**	NH3	26.00	25.00	38.00	730	F or W *	SCD 7
145	**DM145KD**	NH4	32.00	29.50	41.00	830	F	SCD 7
175	**DM175KD**	NH4	32.00	29.50	41.00	930	F	SCD 7
220	**DM220KD**	NH4	32.00	29.50	41.00	1350	F	SCD 9
275	**DM275KD**	NJ1	39.50	34.00	51.50	1500	F	SCD 9
330	**DM330KD**	NJ1	39.50	34.00	51.50	1700	F	SCD 9
440	**DM440KD**	NJ2	48.50	38.40	59.00	2100	F	SCD 10
550	**DM550KD**	NJ2	48.50	38.40	59.00	2350	F	SCD 10
660	**DM660KD**	NJ3	51.50	43.40	66.00	2900	F	SCD 10

For shielded units, please add the suffix "S" to the above part numbers. (i.e. DM075KDS)

*Wall mounting kit and/or drip plate kit required. Refer to pages 264 to 266 for details.

Products listed on this page are available as 'CE Mark' products. Please consult our sales office.

For termination details see page 131.

For accessories see pages 264 to 267.

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Selection Tables

Listed below are our standard voltages. Other primary and secondary voltages available are 240, 380 and 600.

ALUMINUM WOUND, THREE PHASE

480 Delta Primary Volts 480Y Secondary Volts 60 Hz

kVA	Catalog Number	Case Style (Pages 256 - 263)	Dimensions Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 269 - 281)
7.5	**DM007KK**	NH5	19.40	20.20	21.50	150	F or W *	SCD 8
11	**DM011KK**	NH5	19.40	20.20	21.50	160	F or W *	SCD 8
14	**DM014KK**	NH5	19.40	20.20	21.50	170	F or W *	SCD 8
20	**DM020KK**	NH6	23.90	25.00	28.75	240	F or W *	SCD 7
27	**DM027KK**	NH6	23.90	25.00	28.75	300	F or W *	SCD 7
34	**DM034KK**	NH6	23.90	25.00	28.75	330	F or W *	SCD 7
40	**DM040KK**	NH6	23.90	25.00	28.75	350	F or W *	SCD 7
51	**DM051KK**	NH6	23.90	25.00	28.75	430	F or W *	SCD 7
63	**DM063KK**	NH3	26.00	25.00	38.00	530	F or W *	SCD 7
75	**DM075KK**	NH3	26.00	25.00	38.00	580	F or W *	SCD 7
93	**DM093KK**	NH3	26.00	25.00	38.00	630	F or W *	SCD 7
118	**DM118KK**	NH3	26.00	25.00	38.00	730	F or W *	SCD 7
145	**DM145KK**	NH4	32.00	29.50	41.00	830	F	SCD 7
175	**DM175KK**	NH4	32.00	29.50	41.00	930	F	SCD 7
220	**DM220KK**	NH4	32.00	29.50	41.00	1350	F	SCD 9
275	**DM275KK**	NJ1	39.50	34.00	51.50	1500	F	SCD 9
330	**DM330KK**	NJ1	39.50	34.00	51.50	1700	F	SCD 9
440	**DM440KK**	NJ2	48.50	38.40	59.00	2100	F	SCD 10
550	**DM550KK**	NJ2	48.50	38.40	59.00	2350	F	SCD 10
660	**DM660KK**	NJ3	51.50	43.40	66.00	2900	F	SCD 10

For shielded units, please add the suffix "S" to the above part numbers. (i.e. DM075KKS)

*Wall mounting kit and/or drip plate kit required. Refer to pages 264 to 266 for details.

575 Delta Primary Volts 460Y Secondary Volts 60 Hz

kVA	Catalog Number	Case Style (Pages 256 - 263)	Dimensions Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 269 - 281)
7.5	**DM007NJ**	NH5	19.40	20.20	21.50	150	F or W *	SCD 8
11	**DM011NJ**	NH5	19.40	20.20	21.50	160	F or W *	SCD 8
14	**DM014NJ**	NH5	19.40	20.20	21.50	170	F or W *	SCD 8
20	**DM020NJ**	NH6	23.90	25.00	28.75	240	F or W *	SCD 7
27	**DM027NJ**	NH6	23.90	25.00	28.75	300	F or W *	SCD 7
34	**DM034NJ**	NH6	23.90	25.00	28.75	330	F or W *	SCD 7
40	**DM040NJ**	NH6	23.90	25.00	28.75	350	F or W *	SCD 7
51	**DM051NJ**	NH6	23.90	25.00	28.75	430	F or W *	SCD 7
63	**DM063NJ**	NH3	26.00	25.00	38.00	530	F or W *	SCD 7
75	**DM075NJ**	NH3	26.00	25.00	38.00	580	F or W *	SCD 7
93	**DM093NJ**	NH3	26.00	25.00	38.00	630	F or W *	SCD 7
118	**DM118NJ**	NH3	26.00	25.00	38.00	730	F or W *	SCD 7
145	**DM145NJ**	NH4	32.00	29.50	41.00	830	F	SCD 7
175	**DM175NJ**	NH4	32.00	29.50	41.00	930	F	SCD 7
220	**DM220NJ**	NH4	32.00	29.50	41.00	1350	F	SCD 9
275	**DM275NJ**	NJ1	39.50	34.00	51.50	1500	F	SCD 9
330	**DM330NJ**	NJ1	39.50	34.00	51.50	1700	F	SCD 9
440	**DM440NJ**	NJ2	48.50	38.40	59.00	2100	F	SCD 10
550	**DM550NJ**	NJ2	48.50	38.40	59.00	2350	F	SCD 10
660	**DM660NJ**	NJ3	51.50	43.40	66.00	2900	F	SCD 10

For shielded units, please add the suffix "S" to the above part numbers. (i.e. DM075NJS)

*Wall mounting kit and/or drip plate kit required. Refer to pages 264 to 266 for details.

Products listed on this page are available as 'CE Mark' products. Please consult our sales office.

For termination details see page 131.

For accessories see pages 264 to 267.

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Selection Tables

Listed below are our standard voltages. Other primary and secondary voltages available are 240, 380 and 600.

ALUMINUM WOUND, THREE PHASE

575 Delta Primary Volts **575Y Secondary Volts** **60 Hz**

kVA	Catalog Number	Case Style (Pages 256 - 263)	Dimensions Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 269 - 281)
7.5	**DM007NN**	NH5	19.40	20.20	21.50	150	F or W *	SCD 8
11	**DM011NN**	NH5	19.40	20.20	21.50	160	F or W *	SCD 8
14	**DM014NN**	NH5	19.40	20.20	21.50	170	F or W *	SCD 8
20	**DM020NN**	NH6	23.90	25.00	28.75	240	F or W *	SCD 7
27	**DM027NN**	NH6	23.90	25.00	28.75	300	F or W *	SCD 7
34	**DM034NN**	NH6	23.90	25.00	28.75	330	F or W *	SCD 7
40	**DM040NN**	NH6	23.90	25.00	28.75	350	F or W *	SCD 7
51	**DM051NN**	NH6	23.90	25.00	28.75	430	F or W *	SCD 7
63	**DM063NN**	NH3	26.00	25.00	38.00	530	F or W *	SCD 7
75	**DM075NN**	NH3	26.00	25.00	38.00	580	F or W *	SCD 7
93	**DM093NN**	NH3	26.00	25.00	38.00	630	F or W *	SCD 7
118	**DM118NN**	NH3	26.00	25.00	38.00	730	F or W *	SCD 7
145	**DM145NN**	NH4	32.00	29.50	41.00	830	F	SCD 7
175	**DM175NN**	NH4	32.00	29.50	41.00	930	F	SCD 7
220	**DM220NN**	NH4	32.00	29.50	41.00	1350	F	SCD 9
275	**DM275NN**	NJ1	39.50	34.00	51.50	1500	F	SCD 9
330	**DM330NN**	NJ1	39.50	34.00	51.50	1700	F	SCD 9
440	**DM440NN**	NJ2	48.50	38.40	59.00	2100	F	SCD 10
550	**DM550NN**	NJ2	48.50	38.40	59.00	2350	F	SCD 10
660	**DM660NN**	NJ3	51.50	43.40	66.00	2900	F	SCD 10

For shielded units, please add the suffix "S" to the above part numbers. (i.e. DM075NNS)

*Wall mounting kit and/or drip plate kit required. Refer to pages 264 to 266 for details.

COPPER WOUND, THREE PHASE

208 Delta Primary Volts **480Y Secondary Volts** **60 Hz**

kVA	Catalog Number	Case Style (Pages 256 - 263)	Dimensions Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 269 - 281)
7.5	**DM007BKCN**	NH5	19.40	20.20	21.50	150	F or W *	SCD 8
11	**DM011BKCN**	NH5	19.40	20.20	21.50	170	F or W *	SCD 8
14	**DM014BKCN**	NH5	19.40	20.20	21.50	210	F or W *	SCD 8
20	**DM020BKC**	NH6	23.90	25.00	28.75	270	F or W *	SCD 7
27	**DM027BKC**	NH6	23.90	25.00	28.75	330	F or W *	SCD 7
34	**DM034BKC**	NH6	23.90	25.00	28.75	350	F or W *	SCD 7
40	**DM040BKC**	NH6	23.90	25.00	28.75	380	F or W *	SCD 7
51	**DM051BKC**	NH6	23.90	25.00	28.75	450	F or W *	SCD 7
63	**DM063BKC**	NH3	26.00	25.00	38.00	550	F or W *	SCD 7
75	**DM075BKC**	NH3	26.00	25.00	38.00	600	F or W *	SCD 7
93	**DM093BKC**	NH3	26.00	25.00	38.00	630	F or W *	SCD 7
118	**DM118BKC**	NH3	26.00	25.00	38.00	880	F	SCD 7
145	**DM145BKC**	NH4	32.00	29.50	41.00	930	F	SCD 7
175	**DM175BKC**	NH4	32.00	29.50	41.00	1100	F	SCD 7
220	**DM220BKC**	NH4	32.00	29.50	41.00	1450	F	SCD 9
275	**DM275BKC**	NJ1	39.50	34.00	51.50	1680	F	SCD 9
330	**DM330BKC**	NJ1	39.50	34.00	51.50	1850	F	SCD 9
440	**DM440BKC**	NJ2	48.50	38.40	59.00	2350	F	SCD 10
550	**DM550BKC**	NJ2	48.50	38.40	59.00	2800	F	SCD 10
660	**DM660BKC**	NJ3	51.50	43.40	66.00	3250	F	SCD 10

For shielded units, please replace the suffix "C" with a 'K' on the above part numbers. (i.e. DM075BKK)

*Wall mounting kit and/or drip plate kit required. Refer to pages 264 to 266 for details.

Products listed on this page are available as 'CE Mark' products. Please consult our sales office.

For termination details see page 131.

For accessories see pages 264 to 267.

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Selection Tables

Listed below are our standard voltages. Other primary and secondary voltages available are 240, 380 and 600.

COPPER WOUND, THREE PHASE

230 Delta Primary Volts 230Y Secondary Volts 60 Hz

kVA	Catalog Number	Case Style (Pages 256 - 263)	Dimensions Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 269 - 281)
7.5	**DM007CCCN**	NH5	19.40	20.20	21.50	150	F or W *	SCD 8
11	**DM011CCCN**	NH5	19.40	20.20	21.50	170	F or W *	SCD 8
14	**DM014CCCN**	NH5	19.40	20.20	21.50	210	F or W *	SCD 8
20	**DM020CCC**	NH6	23.90	25.00	28.75	270	F or W *	SCD 7
27	**DM027CCC**	NH6	23.90	25.00	28.75	330	F or W *	SCD 7
34	**DM034CCC**	NH6	23.90	25.00	28.75	350	F or W *	SCD 7
40	**DM040CCC**	NH6	23.90	25.00	28.75	380	F or W *	SCD 7
51	**DM051CCC**	NH6	23.90	25.00	28.75	450	F or W *	SCD 7
63	**DM063CCC**	NH3	26.00	25.00	38.00	550	F or W *	SCD 7
75	**DM075CCC**	NH3	26.00	25.00	38.00	600	F or W *	SCD 7
93	**DM093CCC**	NH3	26.00	25.00	38.00	630	F or W *	SCD 7
118	**DM118CCC**	NH3	26.00	25.00	38.00	880	F	SCD 7
145	**DM145CCC**	NH4	32.00	29.50	41.00	930	F	SCD 7
175	**DM175CCC**	NH4	32.00	29.50	41.00	1100	F	SCD 7
220	**DM220CCC**	NH4	32.00	29.50	41.00	1450	F	SCD 9
275	**DM275CCC**	NJ1	39.50	34.00	51.50	1680	F	SCD 9
330	**DM330CCC**	NJ1	39.50	34.00	51.50	1850	F	SCD 9
440	**DM440CCC**	NJ2	48.50	38.40	59.00	2350	F	SCD 10
550	**DM550CCC**	NJ2	48.50	38.40	59.00	2800	F	SCD 10
660	**DM660CCC**	NJ3	51.50	43.40	66.00	3250	F	SCD 10

For shielded units, please replace the suffix "C" with a 'K' on the above part numbers. (i.e. DM075CCK)

*Wall mounting kit and/or drip plate kit required. Refer to pages 264 to 266 for details.

460 Delta Primary Volts 230Y Secondary Volts 60 Hz

kVA	Catalog Number	Case Style (Pages 256 - 263)	Dimensions Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 269 - 281)
7.5	**DM007JCCN**	NH5	19.40	20.20	21.50	150	F or W *	SCD 8
11	**DM011JCCN**	NH5	19.40	20.20	21.50	170	F or W *	SCD 8
14	**DM014JCCN**	NH5	19.40	20.20	21.50	210	F or W *	SCD 8
20	**DM020JCCN**	NH6	23.90	25.00	28.75	270	F or W *	SCD 7
27	**DM027JCCN**	NH6	23.90	25.00	28.75	330	F or W *	SCD 7
34	**DM034JCC**	NH6	23.90	25.00	28.75	350	F or W *	SCD 7
40	**DM040JCC**	NH6	23.90	25.00	28.75	380	F or W *	SCD 7
51	**DM051JCC**	NH6	23.90	25.00	28.75	450	F or W *	SCD 7
63	**DM063JCC**	NH3	26.00	25.00	38.00	550	F or W *	SCD 7
75	**DM075JCC**	NH3	26.00	25.00	38.00	600	F or W *	SCD 7
93	**DM093JCC**	NH3	26.00	25.00	38.00	630	F or W *	SCD 7
118	**DM118JCC**	NH3	26.00	25.00	38.00	880	F	SCD 7
145	**DM145JCC**	NH4	32.00	29.50	41.00	930	F	SCD 7
175	**DM175JCC**	NH4	32.00	29.50	41.00	1100	F	SCD 7
220	**DM220JCC**	NH4	32.00	29.50	41.00	1450	F	SCD 9
275	**DM275JCC**	NJ1	39.50	34.00	51.50	1680	F	SCD 9
330	**DM330JCC**	NJ1	39.50	34.00	51.50	1850	F	SCD 9
440	**DM440JCC**	NJ2	48.50	38.40	59.00	2350	F	SCD 10
550	**DM550JCC**	NJ2	48.50	38.40	59.00	2800	F	SCD 10
660	**DM660JCC**	NJ3	51.50	43.40	66.00	3250	F	SCD 10

For shielded units, please replace the suffix "C" with a 'K' on the above part numbers. (i.e. DM075JCK)

*Wall mounting kit and/or drip plate kit required. Refer to pages 264 to 266 for details.

Products listed on this page are available as 'CE Mark' products. Please consult our sales office.

For termination details see page 131.

For accessories see pages 264 to 267.

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Selection Tables

Listed below are our standard voltages. Other primary and secondary voltages available are 240, 380 and 600.

COPPER WOUND, THREE PHASE

460 Delta Primary Volts 400Y Secondary Volts 60 Hz

kVA	Catalog Number	Case Style (Pages 256 - 263)	Dimensions Width	Dimensions Depth	Dimensions Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 269 - 281)
7.5	**DM007JHCN**	NH5	19.40	20.20	21.50	150	F or W *	SCD 8
11	**DM011JHCN**	NH5	19.40	20.20	21.50	170	F or W *	SCD 8
14	**DM014JHCN**	NH5	19.40	20.20	21.50	210	F or W *	SCD 8
20	**DM020JHCN**	NH6	23.90	25.00	28.75	270	F or W *	SCD 7
27	**DM027JHCN**	NH6	23.90	25.00	28.75	330	F or W *	SCD 7
34	**DM034JHC**	NH6	23.90	25.00	28.75	350	F or W *	SCD 7
40	**DM040JHC**	NH6	23.90	25.00	28.75	380	F or W *	SCD 7
51	**DM051JHC**	NH6	23.90	25.00	28.75	450	F or W *	SCD 7
63	**DM063JHC**	NH3	26.00	25.00	38.00	550	F or W *	SCD 7
75	**DM075JHC**	NH3	26.00	25.00	38.00	600	F or W *	SCD 7
93	**DM093JHC**	NH3	26.00	25.00	38.00	630	F or W *	SCD 7
118	**DM118JHC**	NH3	26.00	25.00	38.00	880	F	SCD 7
145	**DM145JHC**	NH4	32.00	29.50	41.00	930	F	SCD 7
175	**DM175JHC**	NH4	32.00	29.50	41.00	1100	F	SCD 7
220	**DM220JHC**	NH4	32.00	29.50	41.00	1450	F	SCD 9
275	**DM275JHC**	NJ1	39.50	34.00	51.50	1680	F	SCD 9
330	**DM330JHC**	NJ1	39.50	34.00	51.50	1850	F	SCD 9
440	**DM440JHC**	NJ2	48.50	38.40	59.00	2350	F	SCD 10
550	**DM550JHC**	NJ2	48.50	38.40	59.00	2800	F	SCD 10
660	**DM660JHC**	NJ3	51.50	43.40	66.00	3250	F	SCD 10

For shielded units, please replace the suffix "C" with a 'K' on the above part numbers. (i.e. DM075JHK)

*Wall mounting kit and/or drip plate kit required. Refer to pages 264 to 266 for details.

460 Delta Primary Volts 460Y Secondary Volts 60 Hz

kVA	Catalog Number	Case Style (Pages 256 - 263)	Dimensions Width	Dimensions Depth	Dimensions Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 269-281)
7.5	**DM007JJCN**	NH5	19.40	20.20	21.50	150	F or W *	SCD 8
11	**DM011JJCN**	NH5	19.40	20.20	21.50	170	F or W *	SCD 8
14	**DM014JJCN**	NH5	19.40	20.20	21.50	210	F or W *	SCD 8
20	**DM020JJCN**	NH6	23.90	25.00	28.75	270	F or W *	SCD 7
27	**DM027JJCN**	NH6	23.90	25.00	28.75	330	F or W *	SCD 7
34	**DM034JJC**	NH6	23.90	25.00	28.75	350	F or W *	SCD 7
40	**DM040JJC**	NH6	23.90	25.00	28.75	380	F or W *	SCD 7
51	**DM051JJC**	NH6	23.90	25.00	28.75	450	F or W *	SCD 7
63	**DM063JJC**	NH3	26.00	25.00	38.00	550	F or W *	SCD 7
75	**DM075JJC**	NH3	26.00	25.00	38.00	600	F or W *	SCD 7
93	**DM093JJC**	NH3	26.00	25.00	38.00	630	F or W *	SCD 7
118	**DM118JJC**	NH3	26.00	25.00	38.00	880	F	SCD 7
145	**DM145JJC**	NH4	32.00	29.50	41.00	930	F	SCD 7
175	**DM175JJC**	NH4	32.00	29.50	41.00	1100	F	SCD 7
220	**DM220JJC**	NH4	32.00	29.50	41.00	1450	F	SCD 9
275	**DM275JJC**	NJ1	39.50	34.00	51.50	1680	F	SCD 9
330	**DM330JJC**	NJ1	39.50	34.00	51.50	1850	F	SCD 9
440	**DM440JJC**	NJ2	48.50	38.40	59.00	2350	F	SCD 10
550	**DM550JJC**	NJ2	48.50	38.40	59.00	2800	F	SCD 10
660	**DM660JJC**	NJ3	51.50	43.40	66.00	3250	F	SCD 10

For shielded units, please replace the suffix "C" with a 'K' on the above part numbers. (i.e. DM075JJK)

*Wall mounting kit and/or drip plate kit required. Refer to pages 264 to 266 for details.

Products listed on this page are available as 'CE Mark' products. Please consult our sales office.

For termination details see page 131.

For accessories see pages 264 to 267.

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Selection Tables

Listed below are our standard voltages. Other primary and secondary voltages available are 240, 380 and 600.

COPPER WOUND, THREE PHASE

480 Delta Primary Volts 240Y Secondary Volts 60 Hz

kVA	Catalog Number	Case Style (Pages 256 - 263)	Dimensions Width	Dimensions Depth	Dimensions Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 269 - 281)
7.5	**DM007KDCN**	NH5	19.40	20.20	21.50	150	F or W *	SCD 8
11	**DM011KDCN**	NH5	19.40	20.20	21.50	170	F or W *	SCD 8
14	**DM014KDCN**	NH5	19.40	20.20	21.50	210	F or W *	SCD 8
20	**DM020KDCN**	NH6	23.90	25.00	28.75	270	F or W *	SCD 7
27	**DM027KDCN**	NH6	23.90	25.00	28.75	330	F or W *	SCD 7
34	**DM034KDCN**	NH6	23.90	25.00	28.75	350	F or W *	SCD 7
40	**DM040KDC**	NH6	23.90	25.00	28.75	380	F or W *	SCD 7
51	**DM051KDC**	NH6	23.90	25.00	28.75	450	F or W *	SCD 7
63	**DM063KDC**	NH3	26.00	25.00	38.00	550	F or W *	SCD 7
75	**DM075KDC**	NH3	26.00	25.00	38.00	600	F or W *	SCD 7
93	**DM093KDC**	NH3	26.00	25.00	38.00	630	F or W *	SCD 7
118	**DM118KDC**	NH3	26.00	25.00	38.00	880	F	SCD 7
145	**DM145KDC**	NH4	32.00	29.50	41.00	930	F	SCD 7
175	**DM175KDC**	NH4	32.00	29.50	41.00	1100	F	SCD 7
220	**DM220KDC**	NH4	32.00	29.50	41.00	1450	F	SCD 9
275	**DM275KDC**	NJ1	39.50	34.00	51.50	1680	F	SCD 9
330	**DM330KDC**	NJ1	39.50	34.00	51.50	1850	F	SCD 9
440	**DM440KDC**	NJ2	48.50	38.40	59.00	2350	F	SCD 10
550	**DM550KDC**	NJ2	48.50	38.40	59.00	2800	F	SCD 10
660	**DM660KDC**	NJ3	51.50	43.40	66.00	3250	F	SCD 10

For shielded units, please replace the suffix "C" with a 'K' on the above part numbers. (i.e. DM075KDK)

*Wall mounting kit and/or drip plate kit required. Refer to pages 264 to 266 for details.

480 Delta Primary Volts 480Y Secondary Volts 60 Hz

kVA	Catalog Number	Case Style (Pages 256 - 263)	Dimensions Width	Dimensions Depth	Dimensions Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 269 - 281)
7.5	**DM007KKCN**	NH5	19.40	20.20	21.50	150	F or W *	SCD 8
11	**DM011KKCN**	NH5	19.40	20.20	21.50	170	F or W *	SCD 8
14	**DM014KKCN**	NH5	19.40	20.20	21.50	210	F or W *	SCD 8
20	**DM020KKCN**	NH6	23.90	25.00	28.75	270	F or W *	SCD 7
27	**DM027KKCN**	NH6	23.90	25.00	28.75	330	F or W *	SCD 7
34	**DM034KKCN**	NH6	23.90	25.00	28.75	350	F or W *	SCD 7
40	**DM040KKC**	NH6	23.90	25.00	28.75	380	F or W *	SCD 7
51	**DM051KKC**	NH6	23.90	25.00	28.75	450	F or W *	SCD 7
63	**DM063KKC**	NH3	26.00	25.00	38.00	550	F or W *	SCD 7
75	**DM075KKC**	NH3	26.00	25.00	38.00	600	F or W *	SCD 7
93	**DM093KKC**	NH3	26.00	25.00	38.00	630	F or W *	SCD 7
118	**DM118KKC**	NH3	26.00	25.00	38.00	880	F	SCD 7
145	**DM145KKC**	NH4	32.00	29.50	41.00	930	F	SCD 7
175	**DM175KKC**	NH4	32.00	29.50	41.00	1100	F	SCD 7
220	**DM220KKC**	NH4	32.00	29.50	41.00	1450	F	SCD 9
275	**DM275KKC**	NJ1	39.50	34.00	51.50	1680	F	SCD 9
330	**DM330KKC**	NJ1	39.50	34.00	51.50	1850	F	SCD 9
440	**DM440KKC**	NJ2	48.50	38.40	59.00	2350	F	SCD 10
550	**DM550KKC**	NJ2	48.50	38.40	59.00	2800	F	SCD 10
660	**DM660KKC**	NJ3	51.50	43.40	66.00	3250	F	SCD 10

For shielded units, please replace the suffix "C" with a 'K' on the above part numbers. (i.e. DM075KKK)

*Wall mounting kit and/or drip plate kit required. Refer to pages 264 to 266 for details.

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Selection Tables

Listed below are our standard voltages. Other primary and secondary voltages available are 240, 380 and 600.

COPPER WOUND, THREE PHASE

575 Delta Primary Volts 460Y Secondary Volts 60 Hz

kVA	Catalog Number	Case Style (Pages 256 - 263)	Dimensions Width	Dimensions Depth	Dimensions Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 269 - 281)
7.5	**DM007NJCN**	NH5	19.40	20.20	21.50	150	F or W *	SCD 8
11	**DM011NJCN**	NH5	19.40	20.20	21.50	170	F or W *	SCD 8
14	**DM014NJCN**	NH5	19.40	20.20	21.50	210	F or W *	SCD 8
20	**DM020NJCN**	NH6	23.90	25.00	28.75	270	F or W *	SCD 7
27	**DM027NJCN**	NH6	23.90	25.00	28.75	330	F or W *	SCD 7
34	**DM034NJCN**	NH6	23.90	25.00	28.75	350	F or W *	SCD 7
40	**DM040NJCN**	NH6	23.90	25.00	28.75	380	F or W *	SCD 7
51	**DM051NJC**	NH6	23.90	25.00	28.75	450	F or W *	SCD 7
63	**DM063NJC**	NH3	26.00	25.00	38.00	550	F or W *	SCD 7
75	**DM075NJC**	NH3	26.00	25.00	38.00	600	F or W *	SCD 7
93	**DM093NJC**	NH3	26.00	25.00	38.00	630	F or W *	SCD 7
118	**DM118NJC**	NH3	26.00	25.00	38.00	880	F	SCD 7
145	**DM145NJC**	NH4	32.00	29.50	41.00	930	F	SCD 7
175	**DM175NJC**	NH4	32.00	29.50	41.00	1100	F	SCD 7
220	**DM220NJC**	NH4	32.00	29.50	41.00	1450	F	SCD 9
275	**DM275NJC**	NJ1	39.50	34.00	51.50	1680	F	SCD 9
330	**DM330NJC**	NJ1	39.50	34.00	51.50	1850	F	SCD 9
440	**DM440NJC**	NJ2	48.50	38.40	59.00	2350	F	SCD 10
550	**DM550NJC**	NJ2	48.50	38.40	59.00	2800	F	SCD 10
660	**DM660NJC**	NJ3	51.50	43.40	66.00	3250	F	SCD 10

For shielded units, please replace the suffix "C" with a 'K' on the above part numbers. (i.e. DM075NJK)

*Wall mounting kit and/or drip plate kit required. Refer to pages 264 to 266 for details.

575 Delta Primary Volts 575Y Secondary Volts 60 Hz

kVA	Catalog Number	Case Style (Pages 256 - 263)	Dimensions Width	Dimensions Depth	Dimensions Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 269 - 281)
7.5	**DM007NNCN**	NH5	19.40	20.20	21.50	150	F or W *	SCD 8
11	**DM011NNCN**	NH5	19.40	20.20	21.50	170	F or W *	SCD 8
14	**DM014NNCN**	NH5	19.40	20.20	21.50	210	F or W *	SCD 8
20	**DM020NNCN**	NH6	23.90	25.00	28.75	270	F or W *	SCD 7
27	**DM027NNCN**	NH6	23.90	25.00	28.75	330	F or W *	SCD 7
34	**DM034NNCN**	NH6	23.90	25.00	28.75	350	F or W *	SCD 7
40	**DM040NNCN**	NH6	23.90	25.00	28.75	380	F or W *	SCD 7
51	**DM051NNC**	NH6	23.90	25.00	28.75	450	F or W *	SCD 7
63	**DM063NNC**	NH3	26.00	25.00	38.00	550	F or W *	SCD 7
75	**DM075NNC**	NH3	26.00	25.00	38.00	600	F or W *	SCD 7
93	**DM093NNC**	NH3	26.00	25.00	38.00	630	F or W *	SCD 7
118	**DM118NNC**	NH3	26.00	25.00	38.00	880	F	SCD 7
145	**DM145NNC**	NH4	32.00	29.50	41.00	930	F	SCD 7
175	**DM175NNC**	NH4	32.00	29.50	41.00	1100	F	SCD 7
220	**DM220NNC**	NH4	32.00	29.50	41.00	1450	F	SCD 9
275	**DM275NNC**	NJ1	39.50	34.00	51.50	1680	F	SCD 9
330	**DM330NNC**	NJ1	39.50	34.00	51.50	1850	F	SCD 9
440	**DM440NNC**	NJ2	48.50	38.40	59.00	2350	F	SCD 10
550	**DM550NNC**	NJ2	48.50	38.40	59.00	2800	F	SCD 10
660	**DM660NNC**	NJ3	51.50	43.40	66.00	3250	F	SCD 10

For shielded units, please replace the suffix "C" with a 'K' on the above part numbers. (i.e. DM075NNK)

*Wall mounting kit and/or drip plate kit required. Refer to pages 264 to 266 for details.

Products listed on this page are available as 'CE Mark' products. Please consult our sales office.

For termination details see page 131.

For accessories see pages 264 to 267.

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TERMINATION DETAILS

THREE PHASE, ALUMINUM AND COPPER TERMINATION - LUGS OR PADS

kVA	VOLTAGE							
	208	230	240	380	460	480	575	600
7.5	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
11	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
14	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
20	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
27	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
34	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
40	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
51	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
63	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
75	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
93	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
118	Diagram 1A	Diagram 1A	Diagram 1A	Lugs	Lugs	Lugs	Lugs	Lugs
145	Diagram 1A	Diagram 1A	Diagram 1A	Lugs	Lugs	Lugs	Lugs	Lugs
175	Diagram 2	Diagram 1A	Diagram 1A	Lugs	Lugs	Lugs	Lugs	Lugs
220	Diagram 2	Diagram 2	Diagram 2	Diagram 1A	Diagram 1A	Lugs	Lugs	Lugs
275	Diagram 2	Diagram 2	Diagram 2	Diagram 1A	Diagram 1A	Diagram 1A	Diagram 1A	Lugs
330	Diagram 2	Diagram 2	Diagram 2	Diagram 2	Diagram 1A	Diagram 1A	Diagram 1A	Diagram 1A
440	Diagram 3	Diagram 3	Diagram 3	Diagram 3	Diagram 3	Diagram 3	Diagram 1B	Diagram 1B
550	Diagram 3	Diagram 3	Diagram 3	Diagram 3	Diagram 3	Diagram 3	Diagram 3	Diagram 3
660	Diagram 3	Diagram 3	Diagram 3	Diagram 3	Diagram 3	Diagram 3	Diagram 3	Diagram 3

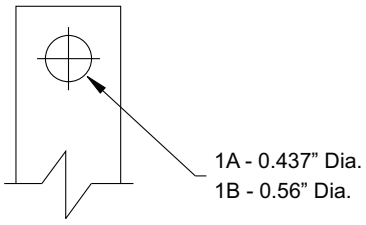

DIAGRAM 1

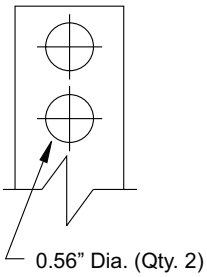

DIAGRAM 2

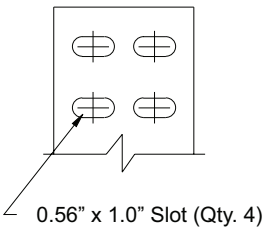

DIAGRAM 3

For termination details see page 131.

For accessories see pages 264 to 267.

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