

Resistive Load Banks

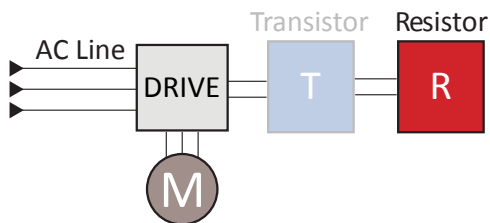


Overvoltage Solutions

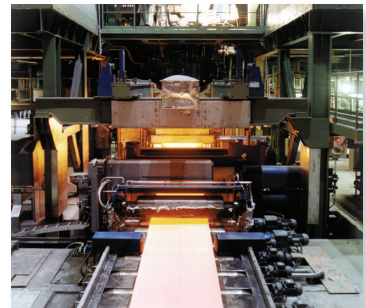
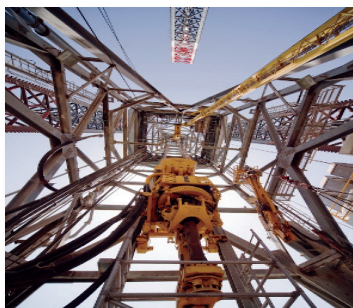


Convection Cooled

Vertical Forced Air
(VFA)



Industry Applications



Centrifuges | Conveyors | Cranes | Draw Works | Elevators | Hoists | Pick and Place | Pump Jacks | & More!

BONITRON

M3775R

While Bonitron has been the industry leader for Braking Transistors for years, what better way to compliment that than by offering quality resistors too! Bonitron has a vast standard offering of Braking Resistors and welcomes custom requests as well.

M3775R Braking Resistors are used with Bonitron Braking Transistors to allow full power braking and eliminate overvoltage faults. This permits controlled braking and dramatically shortens motor stopping time. If overvoltage occurs, Bonitron Transistors or the drive's internal brake, shunts excess energy through a Bonitron M3775R Braking Resistor to prevent overvoltage faults.



NEMA-3R Enclosure
(optional)

Product Highlights

- Standard Mill Galvanized Steel Enclosure
 - 306, 316, etc. Stainless Steel Options
- NEMA-3R Options
- Thermal switch comes standard

Voltages.....230 - 690VAC

Current Rating.....Up to 1600Amps

Duty Cycle.....10 % Overhauling/ 20% Braking
50% Overhauling
100% Overhauling



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615-244-2825

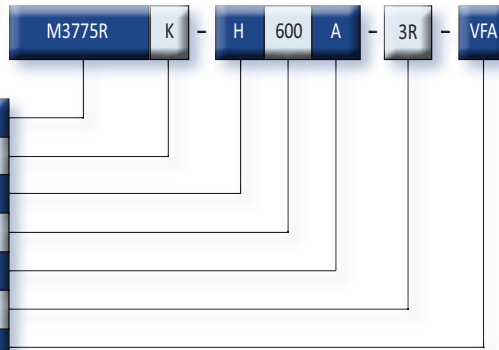
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Model Number Breakdown

Listed are common Bonitron resistors. Contact Bonitron for custom sizes and ratings.

Base Model Number
Internal Note
System AC Voltage
Peak Horsepower
Duty Cycle
Enclosure Type (Omit if not 3R)
Forced Air (Omit if convection)



VFA - Vertical Fan Exhaust
HFA - Horizontal Fan Exhaust
A - 10% Duty
B - 50% Duty
C - 100% Duty

Model Number Selection

230-240VAC

	Peak HP	Peak kW	Peak Amps	Ohms	10% Overhauling (20% Braking)			50% Overhauling Duty			Continuous Duty			
					Cont. kW	Resistor Model Number	Dimensions (H x W x D)	Cont. kW	Resistor Model Number	Dimensions (H x W x D)	Cont. kW	Resistor Model Number	Dimensions (H x W x D)	
230 - 240 VAC 375VDC														
0.5	0.37	1	375	0.04	M3775RK-L0.50A	5.0" x 14.0" x 4.0"	0.19	M3775RK-L0.50B	5.0" x 14.0" x 4.0"	0.37	M3775RK-L0.50C	5.0" x 14.0" x 4.0"		
0.75	0.55	2	250	0.06	M3775RK-L0.75A		0.28	M3775RK-L0.75B	5.0" x 14.0" x 7.0"	0.55	M3775RK-L0.75C	5.0" x 14.0" x 7.0"		
1	0.74	2	190	0.07	M3775RK-L1.00A		0.37	M3775RK-L1.00B		0.74	M3775RK-L1.00C	5.0" x 14.0" x 10.0"		
1.5	1.11	3	125	0.11	M3775RK-L1.50A		0.56	M3775RK-L1.50B	1.11	M3775RK-L1.50C				
2	1.5	4	95	0.15	M3775RK-L2.00A		0.75	M3775RK-L2.00B	1.5	M3775RK-L2.00C	5.0" x 28.0" x 13.0"			
3	2.2	6	63	0.22	M3775RK-L3.00A	1.10	M3775RK-L3.00B	2.2	M3775RK-L3.00C					
5	3.7	10	38	0.37	M3775RK-L5.00A	1.85	M3775RK-L5.00B	3.7	M3775RK-L5.00C					
7.5	5.5	14	26	0.55	M3775RK-L7.50A	5.0" x 14.0" x 7.0"	2.75	M3775RK-L7.50B	5.5	M3775RK-L7.50C	11.5" x 29.0" x 18.0"			
10	7.5	20	19	0.75	M3775RK-L010A		3.75	M3775RK-L010B	7.5	M3775RK-L010C				
15	11	30	12.6	1.1	M3775RK-L015A	5.0" x 14.0" x 10.0"	5.5	M3775RK-L015B	11	M3775RK-L015C	18.5" x 29.0" x 18.0"			
20	15	39	9.6	1.5	M3775RK-L020A	5.0" x 14.0" x 13.0"	7.5	M3775RK-L020B	15	M3775RK-L020C	40.0" x 22.0" x 14.0"			
25	18	50	7.5	1.8	M3775RK-L025A	5.0" x 21.0" x 10.0"	9	M3775RK-L025B	18	M3775RG-L025C	40.0" x 26.5" x 14.0"			
30	22	60	6.3	2.2	M3775RK-L030A	5.0" x 28.0" x 13.0"	11	M3775RG-L030B	22	M3775RG-L030C	40.0" x 22.0" x 28.0"			
40	30	77	4.9	3.0	M3775RK-L040A		15	M3775RG-L040B	30	M3775RG-L040C				
50	37	96	3.9	3.7	M3775RK-L050A	5.0" x 28.0" x 13.0"	19	M3775RG-L050B	37	M3775RG-L050C				
60	44	114	3.3	4.4	M3775RK-L060A		22	M3775RG-L060B	44	M3775RG-L060C				
75	55	139	2.7	5.5	M3775RK-L075A	11.5" x 29.0" x 18.0"	28	M3775RG-L075B	55	M3775RC-L075C-3R-VFA	Contact Bonitron			
100	75	197	1.9	7.5	M3775RK-L100A	18.5" x 29.0" x 18.0"	38	M3775RG-L100B	75	M3775RC-L100C-3R-VFA				
125	93	234	1.6	9	M3775RK-L125A		47	M3775RG-L125B	93	M3775RC-L125C-3R-VFA				
150	111	288	1.3	11	M3775RK-L150A	40.0" x 22.0" x 14.0"	See M3775RC-L150C-3R-VFA to M3775RC-L600C-3R-VFA -->			111		M3775RC-L150C-3R-VFA		
200	150	375	1	15	M3775RG-L200A					150		M3775RC-L200C-3R-VFA		
250	186	469	0.8	19	M3775RG-L250A	186				M3775RC-L250C-3R-VFA				
300	223	600	0.6	22	M3775RG-L300A	223				M3775RC-L300C-3R-VFA				
400	298	800	0.5	30	M3775RG-L400A	298				M3775RC-L400C-3R-VFA				
600	447	1200	0.32	45	M3775RG-L600A	447				M3775RC-L600C-3R-VFA				

380-415VAC

	Peak HP	Peak kW	Peak Amps	Ohms	10% Overhauling (20% Braking)			50% Overhauling Duty			Continuous Duty			
					Cont. kW	Resistor Model Number	Dimensions (H x W x D)	Cont. kW	Resistor Model Number	Dimensions (H x W x D)	Cont. kW	Resistor Model Number	Dimensions (H x W x D)	
380 - 415 VAC 620 VDC														
	62.5	47	75	8.27	5	M3775RK-E063A	Contact Bonitron	23	M3775RK-E063B	Contact Bonitron	47	M3775RK-E063C	Contact Bonitron	
	125	93	150	4.13	9	M3775RK-E125A	36 x 62 x 36	47	M3775RK-E125B	40" x 22" x 42"	93	M3775RC-E125C-3R-VFA		
	165	123	200	3.1	12	M3775RK-E165A	Contact Bonitron	See M3775RC-E165C-3R-VFA to M3775RC-E1330C-3R-VFA ---->			123	M3775RC-E165C-3R-VFA		
	250	186	300	2.07	19	M3775RG-E250A					Contact Bonitron	186		M3775RC-E250C-3R-VFA
	500	373	600	1.03	37	M3775RG-E500A	Contact Bonitron				373	M3775RC-E500C-3R-VFA		
	665	496	800	0.78	50	M3775RF-E665A-3R	Contact Bonitron				496	M3775RC-E665C-3R-VFA		
	1000	746	1200	0.52	75	M3775RF-E1000A-3R					746	M3775RC-E1000C-3R-VFA		
	1330	992	1600	0.39	99	M3775RF-E1330A-3R					992	M3775RC-E1330C-3R-VFA		



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460-480VAC

	Peak HP	Peak kW	Peak Amps	Ohms	10% Overhauling (20% Braking)			50% Overhauling Duty			Continuous Duty				
					Cont. kW	Resistor Model Number	Dimensions (H x W x D)	Cont. kW	Resistor Model Number	Dimensions (H x W x D)	Cont. kW	Resistor Model Number	Dimensions (H x W x D)		
460 - 480 VAC 750VDC															
	0.5	0.4	0.5	1500	0.04	M3775RK-H0.50A	5.0" x 14.0" x 4.0"	0.2	M3775RK-H0.50B	5.0" x 14.0" x 7.0"	0.4	M3775RK-H0.50C	5.0" x 21.0" x 10.0"		
	0.75	0.6	0.75	1000	0.06	M3775RK-H0.75A		0.3	M3775RK-H0.75B	5.0" x 14.0" x 10.0"	0.6	M3775RK-H0.75C	5.0" x 14.0" x 10.0"		
	1	0.7	1	750	0.07	M3775RK-H1.00A		0.4	M3775RK-H1.00B	5.0" x 14.0" x 10.0"	0.7	M3775RK-H1.00C	5.0" x 14.0" x 10.0"		
	1.5	1.1	1.5	500	0.11	M3775RK-H1.50A	5.0" x 14.0" x 7.0"	0.6	M3775RK-H1.50B	5.0" x 14.0" x 13.0"	1.1	M3775RK-H1.50C	5.0" x 21.0" x 10.0"		
	2	1.5	2	375	0.15	M3775RK-H2.00A		0.7	M3775RK-H2.00B	5.0" x 14.0" x 10.0"	1.5	M3775RK-H2.00C	5.0" x 21.0" x 10.0"		
	3	2.2	3	250	0.22	M3775RK-H3.00A	5.0" x 14.0" x 4.0"	1.1	M3775RK-H3.00B	5.0" x 14.0" x 13.0"	2.2	M3775RK-H3.00C	5.0" x 21.0" x 10.0"		
	5	3.7	5	150	0.37	M3775RK-H5.00A	5.0" x 14.0" x 7.0"	1.9	M3775RK-H5.00B	5.0" x 21.0" x 13.0"	3.7	M3775RK-H5.00C	5.0" x 28.0" x 13.0"		
	7.5	5.6	7.5	100	0.56	M3775RK-H7.50A	5.0" x 14.0" x 10.0"	2.8	M3775RK-H7.50B	5.0" x 28.0" x 13.0"	5.6	M3775RK-H7.50C	18.5" x 29.0" x 18.0"		
	10	7.5	10	75	0.75	M3775RK-H010A	5.0" x 14.0" x 10.0"	3.7	M3775RK-H010B	11.5" x 29.0" x 18.0"	7.5	M3775RK-H010C	18.5" x 29.0" x 18.0"		
	15	11	15	50	1.1	M3775RK-H015A	5.0" x 14.0" x 13.0"	5.6	M3775RK-H015B	18.5" x 29.0" x 18.0"	11	M3775RK-H015C	18.5" x 29.0" x 18.0"		
	20	15	20	38	1.5	M3775RK-H020A	5.0" x 21.0" x 10.0"	7.5	M3775RK-H020B	18.5" x 29.0" x 18.0"	15	M3775RG-H020C	40.0" x 22.0" x 14.0"		
	25	19	25	30	1.9	M3775RK-H025A	5.0" x 21.0" x 10.0"	9.3	M3775RK-H025B	18.5" x 29.0" x 18.0"	19	M3775RG-H025C			
	30	22	30	25	2.2	M3775RK-H030A	5.0" x 21.0" x 13.0"	11.2	M3775RG-H030B	40.0" x 22.0" x 14.0"	22	M3775RG-H030C	40.0" x 26.5" x 14.0"		
	40	30	40	19	3.0	M3775RK-H040A	5.0" x 28.0" x 13.0"	14.9	M3775RG-H040B		30	M3775RG-H040C			
	50	37	50	15	3.7	M3775RK-H050A	14.0" x 29.0" x 18.0"	19	M3775RG-H050B	40.0" x 26.5" x 14.0"	37	M3775RG-H050C	40.0" x 22.0" x 28.0"		
	60	45	60	12.6	4.5	M3775RK-H060A	11.5" x 29.0" x 18.0"	22	M3775RG-H060B		45	M3775RG-H060C	40.0" x 26.5" x 14.0"		
	75	56	75	10	5.6	M3775RK-H075A	11.5" x 29.0" x 18.0"	28	M3775RG-H075B	40.0" x 22.0" x 28.0"	56	M3775RG-H075C	40.0" x 26.5" x 28.0"		
	100	75	99	7.5	7.5	M3775RK-H100A	18.5" x 29.0" x 18.0"	37	M3775RG-H100B	40.0" x 26.5" x 28.0"	75	M3775RC-H100C-3R-VFA	Contact Bonitron		
	125	93	124	6	9	M3775RK-H125A	18.5" x 29.0" x 18.0"	47	M3775RG-H125B	40.0" x 22.0" x 42.0"	93	M3775RC-H125C-3R-VFA			
	150	112	149	5	11	M3775RG-H150A	40.0" x 22.0" x 14.0"	56	M3775RG-H150B	40.0" x 26.5" x 42.0"	112	M3775RC-H150C-3R-VFA			
	200	149	199	3.8	15	M3775RG-H200A					149	M3775RC-H200C-3R-VFA			
	250	186	249	3	19	M3775RG-H250A	40.0" x 26.5" x 14.0"	See M3775RC-H200C-3R-VFA to M3775RC-H1600C-3R-VFA ---->			186	M3775RC-H250C-3R-VFA			
	300	224	298	2.5	22	M3775RG-H300A						224		M3775RC-H300C-3R-VFA	
	350	261	348	2.2	26	M3775RG-H350A	40.0" x 22.0" x 28.0"				261	M3775RC-H350C-3R-VFA			
	400	298	398	1.9	30	M3775RG-H400A						298		M3775RC-H400C-3R-VFA	
	500	373	497	1.5	37	M3775RG-H500A	40.0" x 26.5" x 28.0"				373	M3775RC-H500C-3R-VFA			
	600	447	597	1.25	45	M3775RG-H600A						447		M3775RC-H600C-3R-VFA	
	800	597	796	0.94	60	M3775RF-H800A-3R	Contact Bonitron				597	M3775RC-H800C-3R-VFA			
	1200	895	1194	0.63	89	M3775RF-H1200A-3R						895		M3775RC-H1200C-3R-VFA	
	1600	1193	1591	0.47	119	M3775RF-H1600A-3R						1193		M3775RC-H1600C-3R-VFA	

575-600VAC

	Peak HP	Peak kW	Peak Amps	Ohms	10% Overhauling (20% Braking)			50% Overhauling Duty			Continuous Duty			
					Cont. kW	Resistor Model Number	Dimensions (H x W x D)	Cont. kW	Resistor Model Number	Dimensions (H x W x D)	Cont. kW	Resistor Model Number	Dimensions (H x W x D)	
	575 - 600 VAC 940VDC													
	0.5	0.37	0.4	2000	0.04	M3775RK-C0.50A	5.0" x 14.0" x 4.0"	0.19	M3775RK-C0.50B	5.0" x 14.0" x 7.0"	0.37	M3775RK-C0.50C	5.0" x 14.0" x 7.0"	
	0.75	0.56	0.6	1500	0.06	M3775RK-C0.75A		0.28	M3775RK-C0.75B	5.0" x 14.0" x 4.0"	0.56	M3775RK-C0.75C		
	1	0.75	1	1200	0.07	M3775RK-C1.00A		0.37	M3775RK-C1.00B	5.0" x 14.0" x 13.0"	0.75	M3775RK-C1.00C	5.0" x 14.0" x 13.0"	
	1.5	1.1	1	800	0.11	M3775RK-C1.50A	5.0" x 14.0" x 7.0"	0.56	M3775RK-C1.50B	5.0" x 14.0" x 10.0"	1.1	M3775RK-C1.50C	5.0" x 14.0" x 10.0"	
	2	1.5	2	575	0.15	M3775RK-C2.00A		0.75	M3775RK-C2.00B	5.0" x 14.0" x 13.0"	1.5	M3775RK-C2.00C	5.0" x 21.0" x 13.0"	
	3	2.2	2	400	0.2	M3775RK-C3.00A		1.1	M3775RK-C3.00B	5.0" x 14.0" x 10.0"	2.2	M3775RK-C3.00C	5.0" x 21.0" x 10.0"	
	5	3.7	4	235	0.4	M3775RK-C5.00A	5.0" x 14.0" x 10.0"	1.9	M3775RK-C5.00B	5.0" x 21.0" x 13.0"	3.7	M3775RK-C5.00C	5.0" x 28.0" x 13.0"	
	7.5	5.6	6	150	0.6	M3775RK-C7.50A		2.8	M3775RK-C7.50B	5.0" x 28.0" x 13.0"	5.6	M3775RK-C7.50C	11.5" x 29.0" x 18.0"	
	10	7.5	8	120	0.7	M3775RK-C010A		3.7	M3775RK-C010B	11.5" x 29.0" x 18.0"	7.5	M3775RK-C010C	18.5" x 29.0" x 18.0"	
	15	11	12	78	1	M3775RK-C015A	5.0" x 14.0" x 13.0"	6	M3775RK-C015B	18.5" x 29.0" x 18.0"	11	M3775RK-C015C	40.0" x 22.0" x 14.0"	
	20	15	16	59	1	M3775RK-C020A	5.0" x 21.0" x 10.0"	7	M3775RK-C020B		15	M3775RG-C020C		
	25	19	20	47	2	M3775RK-C025A	5.0" x 28.0" x 13.0"	9	M3775RK-C025B		19	M3775RG-C025C		
	30	22	24	39	2	M3775RK-C030A	5.0" x 21.0" x 13.0"	11	M3775RK-C030B	22	M3775RG-C030C	40.0" x 26.5" x 14.0"		
	40	30	32	29	3	M3775RK-C040A	5.0" x 28.0" x 13.0"	15	M3775RG-C040B	40.0" x 22.0" x 14.0"	30		M3775RG-C040C	40.0" x 22.0" x 28.0"
	50	37	41	23	4	M3775RK-C050A	11.5" x 29.0" x 18.0"	19	M3775RG-C050B	40.0" x 26.5" x 14.0"	37		M3775RG-C050C	
	60	45	47	20	4	M3775RK-C060A		22	M3775RG-C060B	40.0" x 22.0" x 28.0"	45	M3775RG-C060C	40.0" x 26.5" x 28.0"	
	75	56	60	15.6	6	M3775RK-C075A		28	M3775RG-C075B	40.0" x 22.0" x 14.0"	56	M3775RG-C075C	Contact Bonitron	
	100	75	80	11.7	7	M3775RK-C100A	37	M3775RG-C100B	40.0" x 22.0" x 14.0"	75	M3775RC-C100C-3R-VFA			
	125	93	101	9.3	9	M3775RK-C125A	47	M3775RK-C125B	60.5" x 29.0" x 18.0"	93	M3775RC-C125C-3R-VFA			
	150	112	121	7.8	11	M3775RK-C150A	40.0" x 22.0" x 14.0"	See M3775RC-C150C-3R-VFA to M3775RC-C2015C-3R-VFA ---->			112	M3775RC-C150C-3R-VFA		
	200	149	159	5.9	15	M3775RG-C200A					149	M3775RC-C200C-3R-VFA		
	250	186	200	4.7	19	M3775RG-C250A					186	M3775RC-C250C-3R-VFA		
	375	280	300	3.2	28	M3775RG-C375A	280				M3775RC-C375C-3R-VFA			
	760	567	600	1.6	57	M3775RF-C760A-3R	567				M3775RC-C760C-3R-VFA			
	1000	746	800	1.2	75	M3775RF-C1000A-3R	746				M3775RC-C1000C-3R-VFA			
	1500	1119	1200	0.78	112	M3775RF-C1500A-3R	Contact Bonitron			1119	M3775RC-C1500C-3R-VFA			
	2015	1503	1600	0.58	150	M3775RF-C2015A-3R				1503	M3775RC-C2015C-3R-VFA			



690VAC

	Peak HP	Peak kW	Peak Amps	Ohms	10% Overhauling (20% Braking)			50% Overhauling Duty			Continuous Duty			
					Cont. kW	Resistor Model Number	Dimensions (H x W x D)	Cont. kW	Resistor Model Number	Dimensions (H x W x D)	Cont. kW	Resistor Model Number	Dimensions (H x W x D)	
690 VAC 1090VDC														
110	82	75	15	8	M3775RK-Y110A	Contact Bonitron	See M3775RC-Y110C-3R-VFA to M3775RC-Y2300C-3R-VFA ----->	82	M3775RC-Y110C-3R-VFA	Contact Bonitron	164	M3775RC-Y220C-3R-VFA		
220	164	150	7.5	16	M3775RK-Y220A			224	M3775RC-Y300C-3R-VFA		328	M3775RC-Y440C-3R-VFA		
300	224	200	5.5	22	M3775RK-Y300A			652	M3775RC-Y875C-3R-VFA		872	M3775RC-Y1170C-3R-VFA		
440	328	300	3.6	33	M3775RK-Y440A			1305	M3775RC-Y1750C-3R-VFA		1715	M3775RC-Y2300C-3R-VFA		
875	652	600	1.95	65	M3775RF-Y875A-3R									
1170	872	800	1.4	87	M3775RF-Y1170A-3R									
1750	1305	1200	0.91	130	M3775RF-Y1750A-3R									
2300	1715	1600	0.68	172	M3775RF-Y2300A-3R									

Line Regens

Single or 3-Phase



Bonitron Line Regens replace traditional braking transistor and resistor options that waste energy as heat during drive braking. Instead of dissipating braking energy as heat in a resistor, Line Regen solutions return this energy to the power grid. This reduces demand from the utility, which equates to ample energy savings.

Looking for a more efficient solution?

Bonitron Line Regen units return regenerative energy back to the AC line where it can be used by equipment within the facility. This reduces the amount of power required from the utility; reducing utility costs.

For applications greater than 20% duty and 450A and below, consider a Bonitron Line Regen. The link below will help you calculate the utility savings for your application.

Bonitron.com/RegenCalculator

Standard Duty Braking Resistor



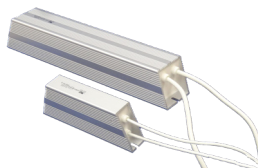
Both the Crane & Hoists and Oil & Gas brochures feature the M3775R Braking Resistor. Learn more at Bonitron.com/industries.html



M3575R

- UL & CUL Listed
- Wall or cabinet mountable
- Installable with new application or as retrofit
- Rapid installation increases up time
- Terminal access covers are standard

Case Resistors



- UL & CUL Listed
- Aluminum housing
- Two-screw mounting
- Installable with new application or as retrofit
- Rapid installation increases up time

Need a Braking Transistor?



Bonitron Braking Transistors are the perfect solutions for drives with no internal brake, or for applications with harsher duty cycles than most internal brakes can handle.

- 230 - 690VAC
- Up to 2300HP each
- Ethernet IP and Profibus DP networking options available



Scan for More M3775R Information

EtherNet/IP is registered trademark of ODVA. PROFIBUS is a registered trademark of PROFIBUS Trade Organization.

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