

Resistive Load Banks



M3775R



Overvoltage Solutions



Convection Cooled

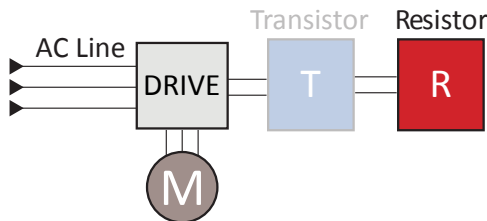
Vertical Forced Air (VFA)



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

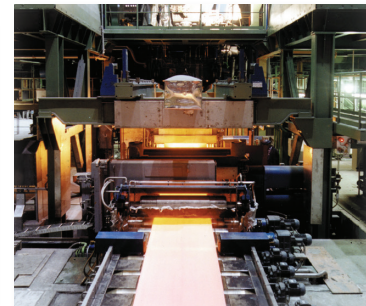
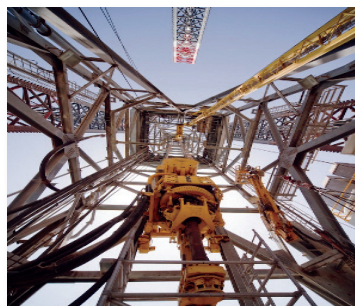
- Standard Mill Galvanized Steel Enclosure
 - 306, 316, etc. Stainless Steel Options
- NEMA-3R Options
- Thermal switch comes standard

Voltages.....230 - 690VAC

Current Rating.....Up to 1600Amps

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

Industry Applications



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



www.bonitron.com

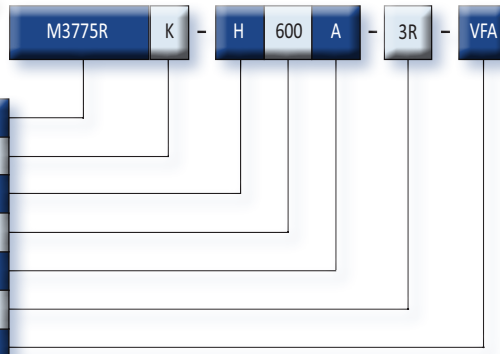


615-244-2825

info@bonitron.com



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	5.0" x 14.0" x 7.0"	0.75	M3775RK-L2.00B	5.0" x 14.0" x 10.0"	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	5.0" x 21.0" x 10.0"	2.2	M3775RK-L3.00C	
5	3.7	10	38	0.37	M3775RK-L5.00A	5.0" x 14.0" x 7.0"	1.85	M3775RK-L5.00B	5.0" x 21.0" x 10.0"	3.7	M3775RK-L5.00C	5.0" x 28.0" x 13.0"
7.5	5.5	14	26	0.55	M3775RK-L7.50A		2.75	M3775RK-L7.50B		5.5	M3775RK-L7.50C	
10	7.5	20	19	0.75	M3775RK-L010A	5.0" x 14.0" x 10.0"	3.75	M3775RK-L010B	5.0" x 28.0" x 13.0"	7.5	M3775RK-L010C	11.5" x 29.0" x 18.0"
15	11	30	12.6	1.1	M3775RK-L015A	5.0" x 14.0" x 13.0"	5.5	M3775RK-L015B	18.5" x 29.0" x 18.0"	11	M3775RK-L015C	
20	15	39	9.6	1.5	M3775RK-L020A	5.0" x 21.0" x 10.0"	7.5	M3775RK-L020B		15	M3775RK-L020C	18.5" x 29.0" x 18.0"
25	18	50	7.5	1.8	M3775RK-L025A		9	M3775RK-L025B	18	M3775RK-L025C	40.0" x 22.0" x 14.0"	
30	22	60	6.3	2.2	M3775RK-L030A	5.0" x 28.0" x 13.0"	11	M3775RK-L030B	22	M3775RK-L030C	40.0" x 26.5" x 14.0"	
40	30	77	4.9	3.0	M3775RK-L040A		15	M3775RK-L040B	30	M3775RK-L040C	40.0" x 22.0" x 28.0"	
50	37	96	3.9	3.7	M3775RK-L050A	11.5" x 29.0" x 18.0"	19	M3775RK-L050B	37	M3775RK-L050C		
60	44	114	3.3	4.4	M3775RK-L060A		22	M3775RK-L060B	44	M3775RK-L060C		
75	55	139	2.7	5.5	M3775RK-L075A	18.5" x 29.0" x 18.0"	28	M3775RK-L075B	55	M3775RK-L075C-3R-VFA	Contact Bonitron	
100	75	197	1.9	7.5	M3775RK-L100A		38	M3775RK-L100B	75	M3775RK-L100C-3R-VFA		
125	93	234	1.6	9	M3775RK-L125A	40.0" x 22.0" x 14.0"	47	M3775RK-L125B	93	M3775RK-L125C-3R-VFA		
150	111	288	1.3	11	M3775RK-L150A		111	M3775RK-L150C-3R-VFA				
200	150	375	1	15	M3775RK-L200A	40.0" x 22.0" x 14.0"	See M3775RF-L150C-3R-VFA to M3775RF-L600C-3R-VFA --->			150		M3775RK-L200C-3R-VFA
250	186	469	0.8	19	M3775RK-L250A	40.0" x 22.0" x 28.0"	186	M3775RK-L250C-3R-VFA				
300	223	600	0.6	22	M3775RK-L300A	Contact Bonitron	223	M3775RK-L300C-3R-VFA				
400	298	800	0.5	30	M3775RK-L400A		298	M3775RK-L400C-3R-VFA				
600	447	1200	0.32	45	M3775RK-L600A	447	M3775RK-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	M3775RK-E125C-3R-VFA	
165	123	200	3.1	12	M3775RK-E165A	Contact Bonitron	See M3775RF-E165C-3R-VFA to M3775RF-E1330C-3R-VFA --->			123	M3775RK-E165C-3R-VFA	
250	186	300	2.07	19	M3775RK-E250A		186	M3775RK-E250C-3R-VFA				
500	373	600	1.03	37	M3775RK-E500A	Contact Bonitron	373	M3775RK-E500C-3R-VFA				
665	496	800	0.78	50	M3775RF-E665A-3R	Contact Bonitron	496	M3775RF-E665C-3R-VFA				
1000	746	1200	0.52	75	M3775RF-E1000A-3R		746	M3775RF-E1000C-3R-VFA				
1330	992	1600	0.39	99	M3775RF-E1330A-3R	992	M3775RF-E1330C-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 M3775RF-Y110C-3R-VFA to M3775RF-Y2300C-3R-VFA ---->	82	M3775RF-Y110C-3R-VFA	Contact Bonitron	Contact Bonitron	
220	164	150	7.5	16	M3775RK-Y220A			164	M3775RF-Y220C-3R-VFA			
300	224	200	5.5	22	M3775RK-Y300A			224	M3775RF-Y300C-3R-VFA			
440	328	300	3.6	33	M3775RK-Y440A			328	M3775RF-Y440C-3R-VFA			
875	652	600	1.95	65	M3775RF-Y875A-3R			652	M3775RF-Y875C-3R-VFA			
1170	872	800	1.4	87	M3775RF-Y1170A-3R			872	M3775RF-Y1170C-3R-VFA			
1750	1305	1200	0.91	130	M3775RF-Y1750A-3R			1305	M3775RF-Y1750C-3R-VFA			
2300	1715	1600	0.68	172	M3775RF-Y2300A-3R			1715	M3775RF-Y2300C-3R-VFA			

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

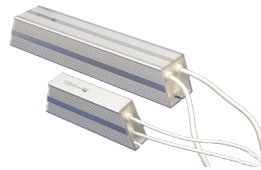


M3575R

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

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

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