

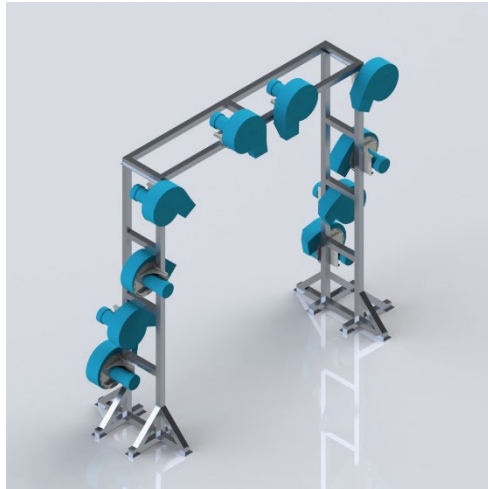
Blower Arch & Motor Starters

095910 – Blower Dryer Package, 10Hp Each w/Frame



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Part Number	095910-93		095910-3-2
Motor Starters	591092-144 (x2)	591093-144	591092-144 (x2)
Side Blowers (Each Side)	4		3
Top Blowers	2		2
Voltage Rating	460/480V 3PH 60Hz		460/480V 3PH 60Hz
Each Motor Rating	10 HP		
Full-Load Amps	140 A (56,56,28)		112 A (56,56)
Short Circuit-Current Rating	5kA		
Enclosure Type	4X		
Line Conductor Size Min. Spec	6 AWG	8 AWG	6 AWG
Load Conductor Size Min. Spec	12 AWG	12 AWG	12 AWG
Ground Size Min. Spec	8 AWG	10 AWG	8 AWG
Disconnect Rating	No less than 65A	No less than 35A	No less than 65A
Max Fuse	K5/RK5 50A	K5/RK5 50A	K5/RK5 50A
Max Circuit Breaker	75 A	60 A	75 A
Starter Approx. Dimensions	17.625"W x 19.625"H x 9"D		

General Info

The purpose of this manual is to provide the necessary information to install and operate the Hydro-Chem equipment to exceed your defined expectation.

The Blower Arches (BLA) will come shipped as a frame assembly with each individual blower motor. The full assembly is constructed and anchored on-site per the project specific MEP. The Motor Starters will come pre-wired and UL508a compliant. A schematic of the assembly and its torque specs may be found in the document holder within the enclosure and contractor wiring specs may be found within the document holder of the MCP.

System Overview

For a full system overview, review the Cut Sheet or Parts Breakdown for the specific arch that is being used. Figures 1 & 2 outline the overall layout of the motor starter assemblies.

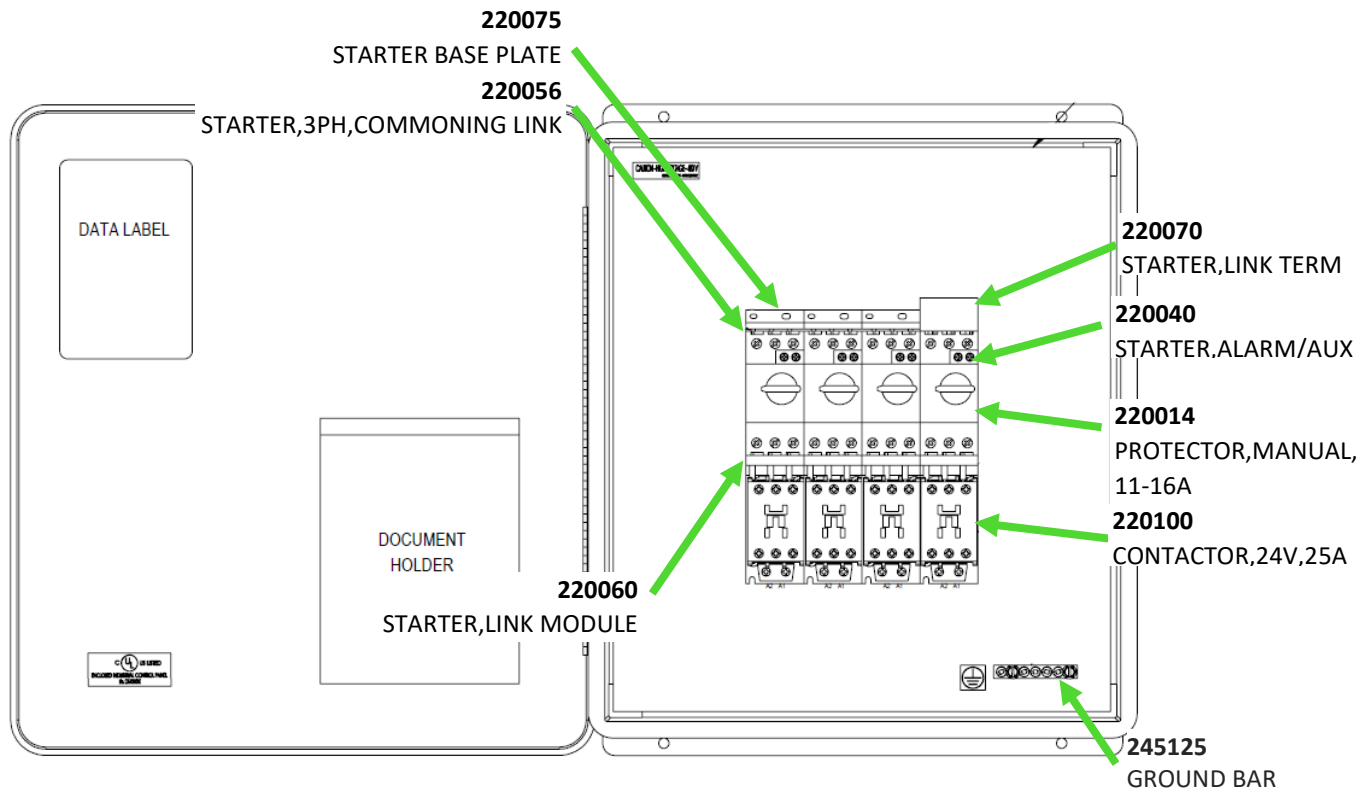


Figure 1. 591092-144 Motor Starter Assembly Layout

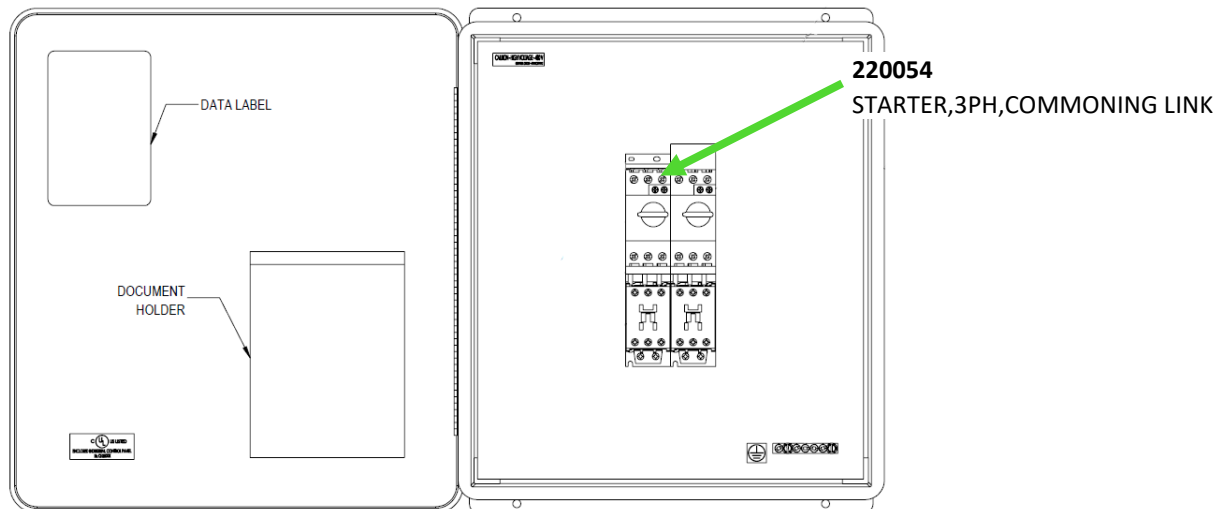


Figure 2. 591093-144 Motor Starter Assembly Layout

Figure 3 shows the electrical schematic for 4 motor starter assembly.

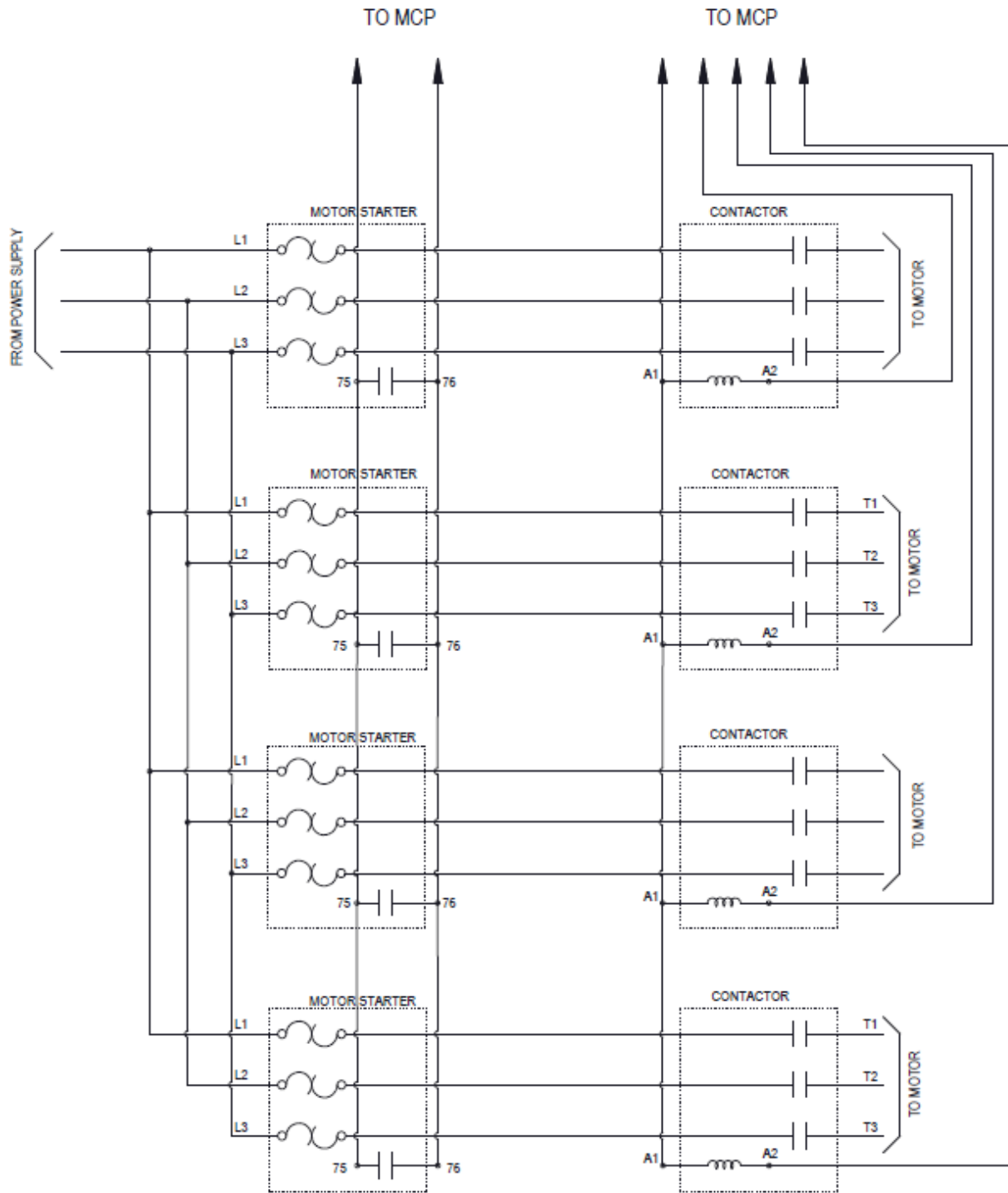


Figure 3. 591092-144 Motor Starter Electrical Schematic

Installation & Set-Up

The arch assembly is to be assembled and anchored per the project MEP, utilizing the supplied ½" hardware. Arch breakdown sheets can be found in the project Set-Up packet or Manual, providing a detailed BOM with angles at which the blowers should be mounted on the frame. When installing blower motors, the drain plugs should be removed.

Typically, an electrician will prefer to mount the Motor Starters themselves so that they can meet local code requirements and plan their conduit lines. The Starter should be wired to the instructions within the Electrical Packet for the Automated System and per the requirements on the provided drawing for the Motor Starter. At System Start Up, ensure that all required wires from the MCP are landed in the Starter.

Troubleshooting

Issue	Potential Solution
Blowers are not activating during wash	Are any System Stop buttons are pushed in? If not activate the starter in Test Mode.
	If this activates the starter, check that the system sees when the appropriate loop is activating (Monitor System on the MCP).
	If this does not activate the starter, check that the MCP has 24VAC where necessary and proceed to the next steps.
	Check that the overload hasn't tripped at the starter. This can also be seen on the Touch Scren. If the overload has tripped, reset it.
	Check that the 3Phase supply voltage isn't disconnected or that a breaker hasn't tripped.