

Cost Effective Common DC Bus Solutions Using AC30 Series AC Drives



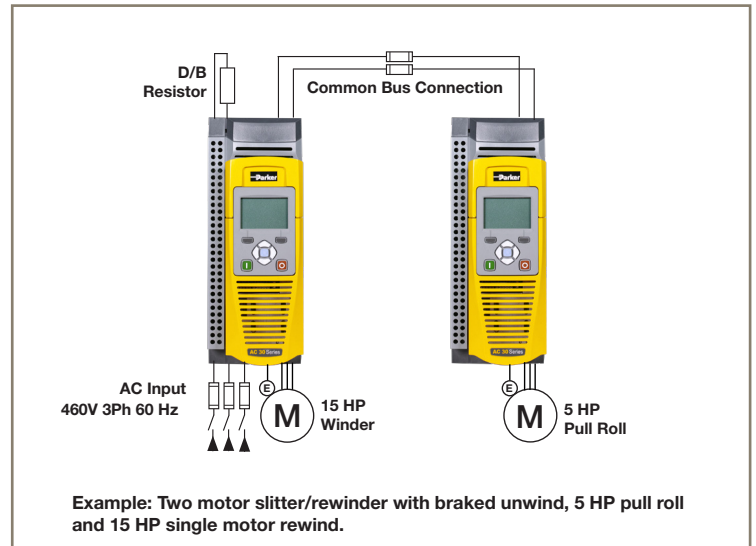
ENGINEERING YOUR SUCCESS.

Parker Hannifin

Providing cost effective common bus solutions

OEMs and system integrators are seeking ways to more cost effectively deliver solutions to their customers. Whether it's a reduction in assembly time (labor), a reduction in the number of components that need to be procured, or simply a reduction in cost to achieve competitive advantage, an AC30 solution can make the system manufacturer more competitive and more profitable.

Parker offers two solutions for common DC bus configured AC drive systems, the tried and true AC890 series and now the AC30 series. The AC890 series B – D frame solutions can be deployed in systems of any size, however they are most cost effective in larger systems. Our focus here is on the AC30 series, which is most cost effective in smaller common bus systems, typically consisting of five drives or less.



Considerations:

- Targeted at two to five drive, lower HP web conveyance systems such as slitter/rewinders, inspection lines, and similar equipment.
- Single AC feed to system. One circuit breaker, one set of semiconductor fuses, one line reactor, and one brake resistor. No infeed (CS) unit, so very cost effective.
- The largest drive functions as both drive and DC supply to other units.
- The largest drive may not be greater than three times the rating of the motor it powers.
- Total connected HP of all the DC fed drives must not exceed 50% of the rating of the largest drive. (Ex: A 10 HP drive can supply DC to up to five 1 HP or a single 5 HP DC fed drives.
- The total running HP must not exceed the rating of the largest drive.
- External DC fusing is required, however no DC contactors are required.

Item	Qty	Part Number	Description
1	1	31P-4F0032-BN-2S-0000	AC30 480V 20ND/15HD 27/21A BRK GKP Dimensions: 15.1" H x 5.9" W x 10.0" D Weight: 22.0 lbs.
2	1	LA471359	DB KIT 56 OHMS 3 AMPS 500 WATTS (13.2 x 1.2 x 2.4) + Overload + Aux Contact
3	3	CS470754U040	FUSE CLASS-J T-D 600V 30A
4	1		FUSEBLOCK 3P 500V 60A
5	1	31P-4D0012-BN-2S-0000	AC30 480V 7.5ND/5.0HD 11/7.6A BRK GKP Dimensions: 11.3" H x 3.9" W x 10.0" D Weight: 9.9 lbs.
6	2	7004-04-00	AC30V Encoder f/b & thermistor option
7	2	CS470956U050	DC Fuse
8	2	CP470169U102	DC Fuse Block

AC30V solution hardware is over 50% less than a comparable AC890 solution. This in combination with the unsurpassed configurability of DSEbased LINKNet solutions positions the AC30 as the ideal solution for smaller common DC bus systems.

For more information on AC30, please visit solutions.parker.com/AC30
For more information on LINKnet, please visit solutions.parker.com/linknet

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