

data sheet twin engine, four bank, start, service, bow and stern

12 volt P2800 part number 12800-000

contactor current rating

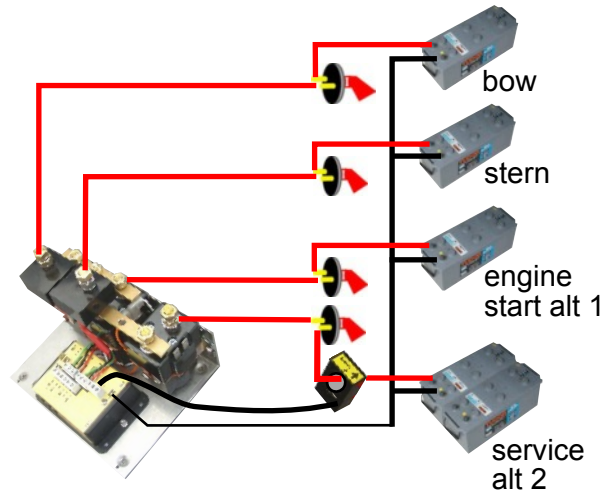
continuous 100 amp @ 50 mV
 engine start 250 amp intermittent
 surge 500 amp

operation bi-directional split charge, standard
 connect voltage bow .. 13.8V stern 13.9V
 drop-out voltage 13.0V
 adjustment contactor engagement and drop out
 protection waterproof to IP66
 emergency link start ... includes button to engage link start timed period.

system protection . . 5 internal PTC fuses, auto re-set

size / weight

contactor 175 x 140 x 135 mm / 1.5 Kgs



standard pre-fitted options

bow contactor drop out with bow thruster use forces bow thruster to use local battery, avoiding charge system overload.
 stern contactor drop out with stern thruster use forces stern thruster to use local battery, avoiding charge system overload.
 emergency link start allows engine to be started from service battery bank, timed engagement, remote switch.

split charge contactors

The system employs heavy duty contactors, these carry far higher loads than typical VSR relays, making them ideal for emergency engine starting. They also feature a high fault current rupture rating (150 amp to UL508), allowing the disconnection of high current loads at low voltage. The contacts are sealed to IP66, making them suitable for operation in a marine environment, protecting contacts from corrosion and avoiding flash from open contactor units.

emergency link start allows the engine to be started from the service bank for timed period, if the engine battery has a low capacity.

operating voltage units are normally set to standard switching voltages, we are happy to set modules to customer requirements, or they can be adjusted on site. Alternate voltages can be supplied to order, please contact technical section.

Operation the engines are wired to allow both engines to start from a single battery bank, the alternators are split to allow the engine 1 (alt 1) to charge the starter battery bank and then connects the bow battery at 13.8 volt, then the stern battery at 13.9 volt, when this reaches a set voltage the third contactor closes to allow charge to the service battery. The engine 2 alternator is permanently connected to the service battery. The system allows for either alternator to charge all the battery banks, thus if one alternator fails, the remaining one will charge all battery banks. A suitable secondary charge source connected to the service battery bank can charge both engine start, bow and stern battery.

options to order

contact rating 100 and 350 amp
 coil voltage 12 volt DC to 48 volt DC

data sheet	P2830
issue date	10/10/13

data sheet twin engine, four bank, start, service, bow and stern

12 volt P2830 part number 12830-000

24 volt P2840 part number 12840-000

contactor current rating

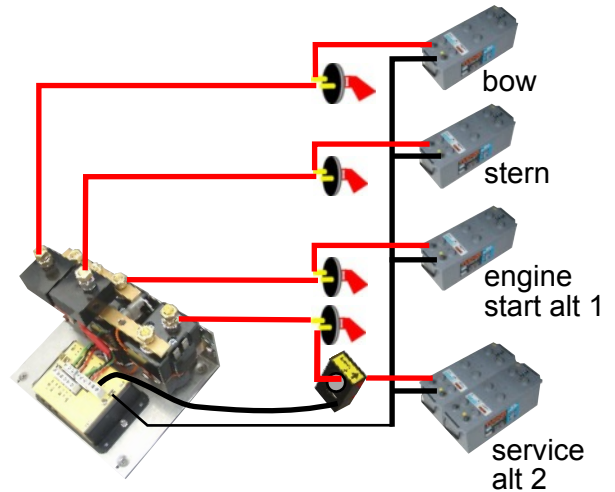
continuous 200 amp @ 40 mV / contact / 100 A
 engine start 400 amp intermittent
 surge 800 amp

operation

..... bi-directional split charge, standard
 connect voltage bow .. 13.8V / 27.6V stern 13.9V / 27.8V
 drop-out voltage 13.0V / 26.0V
 adjustment contactor engagement and drop out
 protection waterproof to IP66
 emergency link start ... includes button to engage link start timed period.

system protection

..... 5 internal PTC fuses, auto re-set
 size / weight
 contactor 175 x 140 x 135 mm / 1.9 Kgs



standard pre-fitted options

bow contactor drop out with bow thruster use forces bow thruster to use local battery, avoiding charge system overload.
 stern contactor drop out with stern thruster use forces stern thruster to use local battery, avoiding charge system overload.
 emergency link start allows engine to be started from service battery bank, timed engagement, remote switch.

split charge contactors

The system employs heavy duty contactors, these carry far higher loads than typical VSR relays, making them ideal for emergency engine starting. They also feature a high fault current rupture rating (300 amp to UL508), allowing the disconnection of high current loads at low voltage. The contacts are sealed to IP66, making them suitable for operation in a marine environment, protecting contacts from corrosion and avoiding flash from open contactor units.

emergency link start allows the engine to be started from the service bank for timed period, if the engine battery has a low capacity.

operating voltage units are normally set to standard switching voltages, we are happy to set modules to customer requirements, or they can be adjusted on site. Alternate voltages can be supplied to order, please contact technical section.

Operation the engines are wired to allow both engines to start from a single battery bank, the alternators are split to allow the engine 1 (alt 1) to charge the starter battery bank and then connects the bow battery at 13.8 volt, then the stern battery at 13.9 volt, when this reaches a set voltage the third contactor closes to allow charge to the service battery. The engine 2 alternator is permanently connected to the service battery. The system allows for either alternator to charge all the battery banks, thus if one alternator fails, the remaining one will charge all battery banks. A suitable secondary charge source connected to the service battery bank can charge both engine start, bow and stern battery.

options to order

contact rating 100 and 350 amp
 coil voltage 12 volt DC to 48 volt DC