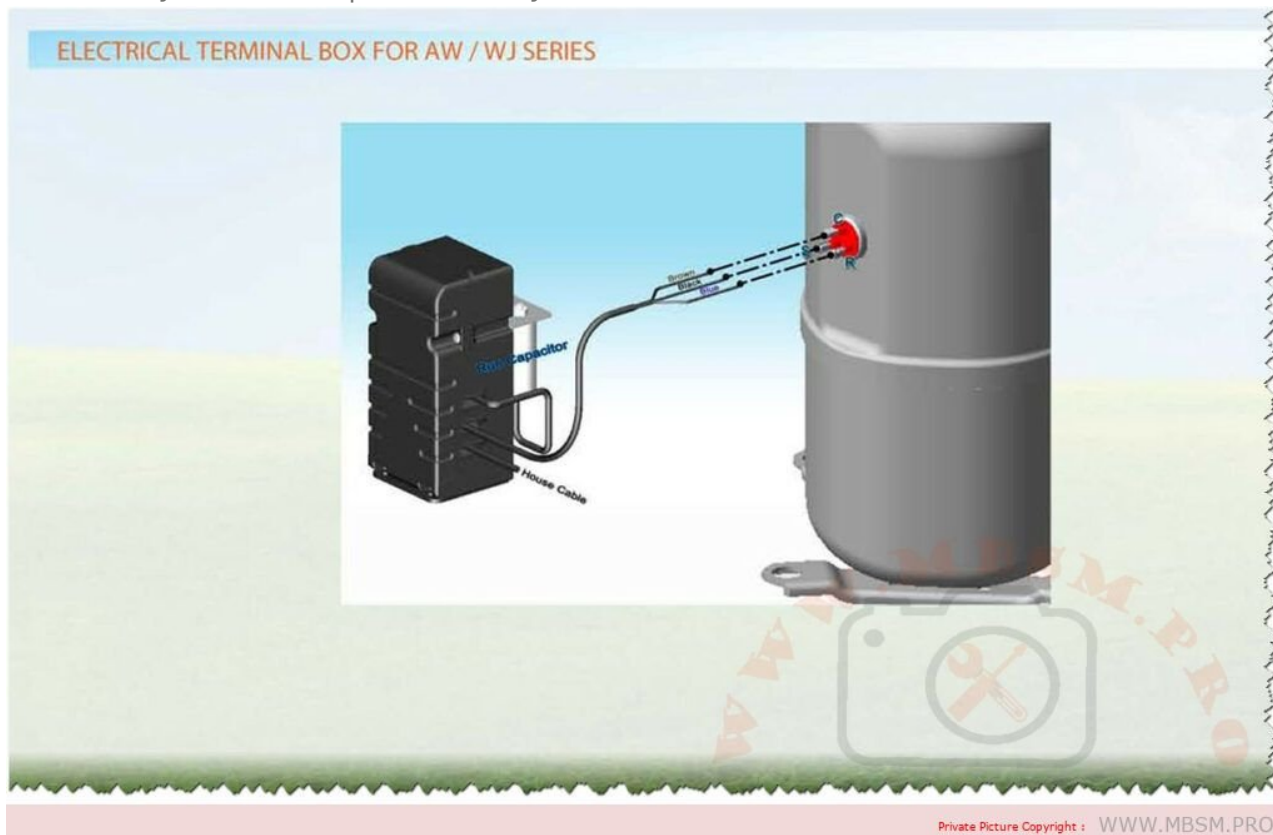


Mbsm.pro, Type of Compressor, csr, psc, pscr, cscr, rsir

Category: compressor

written by Lilianne | 27 January 2024

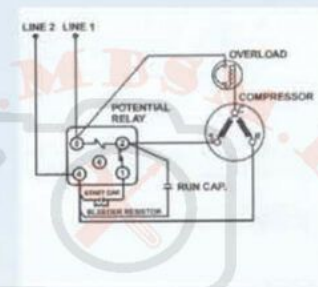
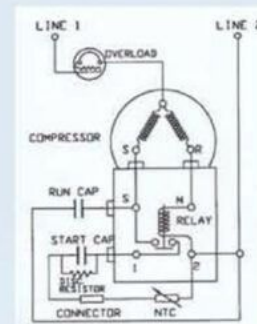


Here is a table summarizing the types of compressors mentioned in the question:

Type of Compressor	Description
CSR (Capacitor Start, Relay)	Uses a start capacitor and a relay to provide initial torque for starting the compressor motor
PSC (Permanent Split Capacitor)	Uses a single capacitor to provide both start and run torque for the compressor motor
PSCR (Permanent Split Capacitor with Relay)	Similar to a PSC compressor, but also uses a relay to provide additional starting torque when needed
CSCR (Capacitor Start, Capacitor Run)	Uses two capacitors, one for starting and one for running the compressor motor
RSIR (Refrigerant-cooled, Semi-Hermetic, Internal Motor, Reciprocating)	A semi-hermetic design with a motor and compressor enclosed in the same housing, commonly used in commercial refrigeration systems

CSR: Capacitor Start Capacitor Run

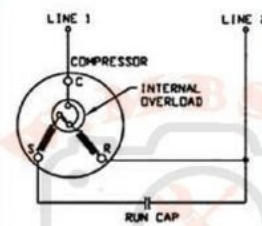
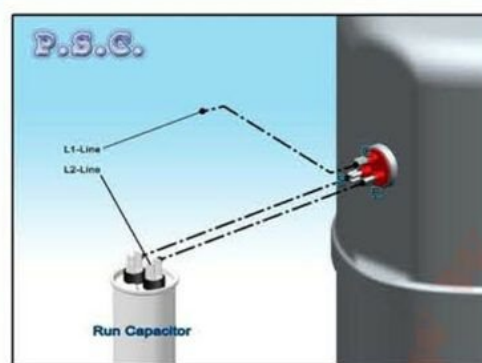
This motor arrangement uses a start capacitor added to a PSC circuit. The high starting torque is suitable for unequalized systems with capillary tube or expansion valve, maintaining the same efficiency of a PSC motor.



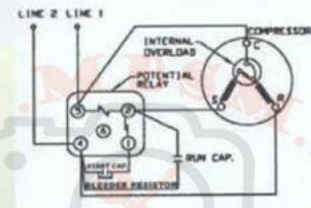
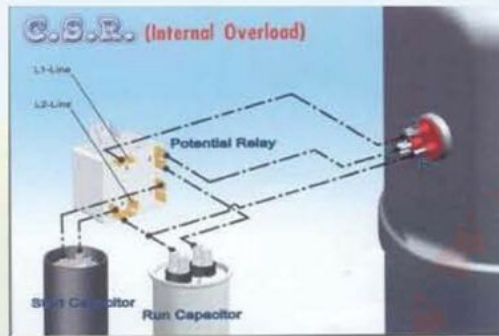
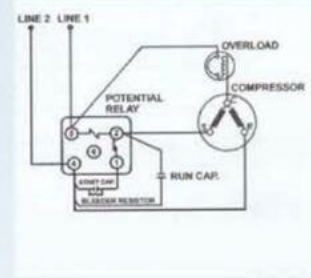
Private Picture Copyright : WWW.MBSM.PRO

PSC: Permanent Split Capacitor

A run capacitor in series with the start winding produces a higher efficiency (EER) in comparison to a RSIR motor. They have a normal starting torque and are designed for capillary tube control devices, with equalized pressures.



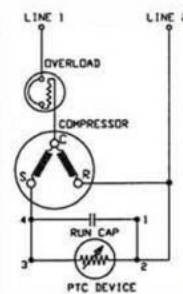
Private Picture Copyright : WWW.MBSM.PRO



Private Picture Copyright : WWW.MBSM.PRO

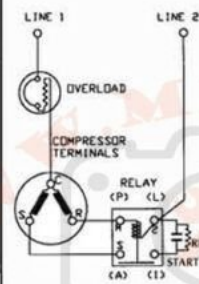
RSCR: Resistance Start Capacitor Run

The motors have a PTC starting torque and a run capacitor. Their functioning is similar to the PSC motor. These compressors have a normal starting torque.



CSIR: Capacitor Start Induction Run

The motors have a high starting torque, using an electrolytic starting capacitor. Recommended for applications with capillary tube or expansion valve systems.

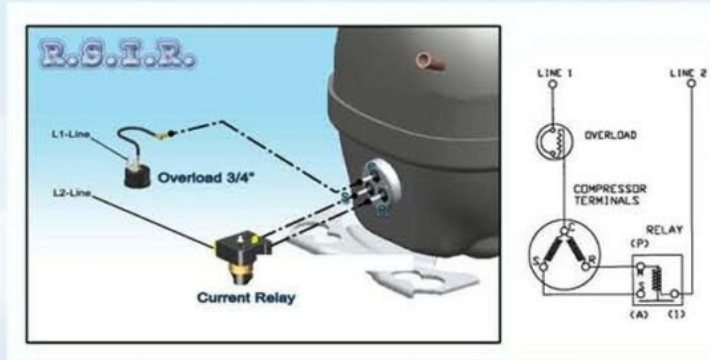


Private Picture Copyright : WWW.MBSM.PRO

RSIR: Resistance Start Induction Run

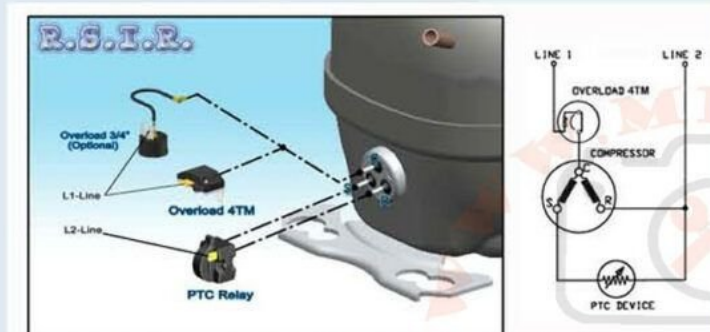
RSIR motor with current relay:

The motors have a normal starting torque and are designed for completely self-equalizing capillary tube.



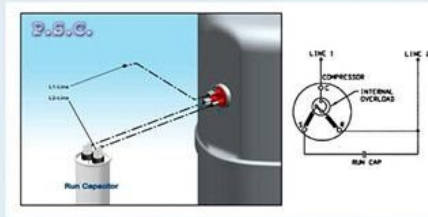
RSIR motor with PTC relay:

Motor functioning is similar to the RSIR with current relay, except that the current relay is replaced by a PTC relay.



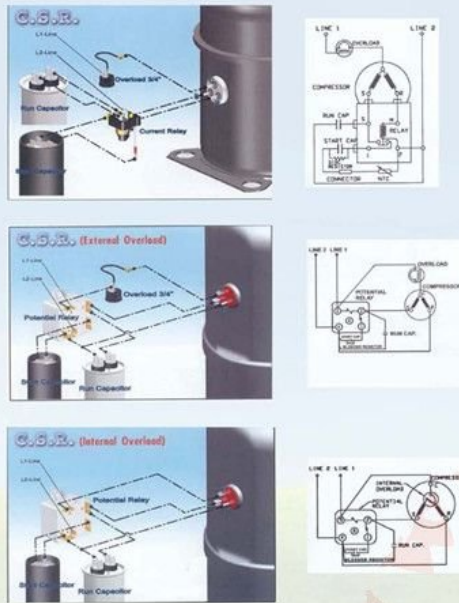
PSC: Permanent Split Capacitor

A run capacitor in series with the start winding produces a higher efficiency (EER) in comparison to a RSIR motor. They have a normal starting torque and are designed for capillary tube control devices, with equalized pressures.



CSR: Capacitor Start Capacitor Run

This motor arrangement uses a start capacitor added to a PSC circuit. The high starting torque is suitable for unequalized systems with capillary tube or expansion valve, maintaining the same efficiency of a PSC motor.

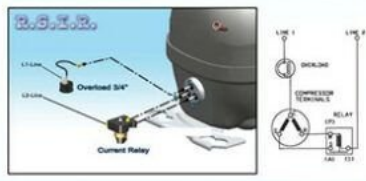


MOTOR TYPE / WIRING DIAGRAM

RSIR: Resistance Start Induction Run

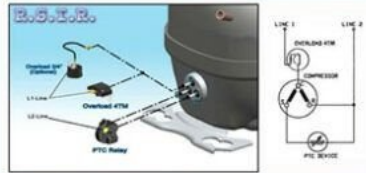
RSIR motor with current relay:

The motors have a normal starting torque and are designed for completely self-equalizing capillary tube.



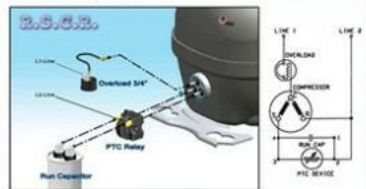
RSIR motor with PTC relay:

Motor functioning is similar to the RSIR with current relay, except that the current relay is replaced by a PTC relay.



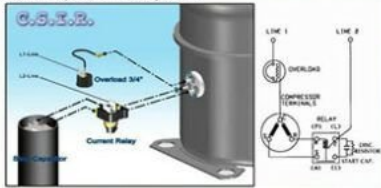
RSCR: Resistance Start Capacitor Run

The motors have a PTC starting torque and a run capacitor. Their functioning is similar to the PSC motor. These compressors have a normal starting torque.



CSIR: Capacitor Start Induction Run

The motors have a high starting torque, using an electrolytic starting capacitor. Recommended for applications with capillary tube or expansion valve systems.



ELECTRICAL TERMINAL BOX FOR AW / WJ SERIES

