

320 Series Relay

Ordering Information

Standard Motor Protection Relay Kits



About

The 320 - 327M Series of electronic motor protection relays provide comprehensive protection required by motors running constantly at full load and occasionally beyond their limitations. Motors driving crushers, ball mills or high inertia loads especially with long run-up starting times are ideal applications.

Thermal overload protection, running stall and jam protection, earth fault and short circuit protection along with selectable start attempt limitations are features of the relay. A built in motor load current transducer is useful for indicating the % motor load through the 420mA Loop.

Available in Amp calibration range from 0,8A to 1680A split over 7 Amperage selection bands. Also available in a % calibration with the maximum load setting expressed as the full load current divided by the C.T. ratio and multiplied by 100.

Protection Features:

- Thermal Overload Protection
- Locked Rotor Protection
- Running Stall Protection
- Jam Protection
- Unbalanced Current Protection
- Single Phasing Protection
- Earth Leakage Protection
- Earth Fault Protection
- Short Circuit Protection
- Starts per Hour Limitation
- 4-20mA Loop output



A South African Company to be Proud of



Complete Motor Protection Solution to Suite :

0.8 – 12 Amp Motor



Standard Kit

Product Code	Description
FPR0866	320MF110A1

Options

- F** Immediate overload warning (Option I, O and P disallowed)
- G** Earth Fault
- H** Short Circuit
- I** Transfer options G and H to auxiliary relay (option F and O disallowed) with 1 s delay on main trip relay
- J** 100ms trip time for options G and H (if not selected, 1 s delay will be selected)
- K** Thermal memory override facility
- L** Motor Load and thermal memory analogue indication meter (29m or 39m)
- M** Auto-manual overload trip reset facility
- N** Programmed limitation of start attempts (1, 2 or 3)
- O** Phase unbalanced alarm - trip function disabled (option I, O and P disallowed)
- P** Slave auxiliary relay with main trip relay (option I, O and P disallowed)

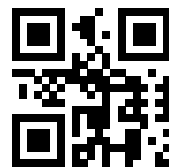
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Complete Motor Protection Solution to Suite :

13 – 30 Amp Motor

Standard Kit

Product Code	Description
FPR0766	321MF220A1

Options

- F** Immediate overload warning (Option I, O and P disallowed)
- G** Earth Fault
- H** Short Circuit
- I** Transfer options G and H to auxiliary relay (option F and O disallowed) with 1 s delay on main trip relay
- J** 100ms trip time for options G and H (if not selected, 1 s delay will be selected)
- K** Thermal memory override facility
- L** Motor Load and thermal memory analogue indication meter (29m or 39m)
- M** Auto-manual overload trip reset facility
- N** Programmed limitation of start attempts (1, 2 or 3)
- O** Phase unbalanced alarm - trip function disabled (option I, O and P disallowed)
- P** Slave auxiliary relay with main trip relay (option I, O and P disallowed)

About

The 320 - 327M Series of electronic motor protection relays provide comprehensive protection required by motors running constantly at full load and occasionally beyond their limitations. Motors driving crushers, ball mills or high inertia loads especially with long run-up starting times are ideal applications.

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Certificate Number : 8707QM5001



Complete Motor Protection Solution to Suite :

31 – 80 Amp Motor

Standard Kit

Product Code	Description
FPR0093	322MC110A1

Options

- F** Immediate overload warning (Option I, O and P disallowed)
- G** Earth Fault
- H** Short Circuit
- I** Transfer options G and H to auxiliary relay (option F and O disallowed) with 1 s delay on main trip relay
- J** 100ms trip time for options G and H (if not selected, 1 s delay will be selected)
- K** Thermal memory override facility
- L** Motor Load and thermal memory analogue indication meter (29m or 39m)
- M** Auto-manual overload trip reset facility
- N** Programmed limitation of start attempts (1, 2 or 3)
- O** Phase unbalanced alarm - trip function disabled (option I, O and P disallowed)
- P** Slave auxiliary relay with main trip relay (option I, O and P disallowed)

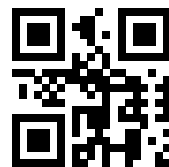
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Thermal overload protection, running stall and jam protection, earth fault and short circuit protection along with selectable start attempt limitations are features of the relay. A built in motor load current transducer is useful for indicating the % motor load through the 420mA Loop.

Available in Amp calibration range from 0,8A to 1680A split over 7 Amperage selection bands. Also available in a % calibration with the maximum load setting expressed as the full load current divided by the C.T. ratio and multiplied by 100.





Complete Motor Protection Solution to Suite :

80 – 160 Amp Motor

Standard Kit

Product Code	Description
FPR0114	323MF110A1

Programming Kit

- F** Immediate overload warning (Option I, O and P disallowed)
- G** Earth Fault
- H** Short Circuit
- I** Transfer options G and H to auxiliary relay (option F and O disallowed) with 1s delay on main trip relay
- J** 100ms trip time for options G and H (if not selected, 1 s delay will be selected)
- K** Thermal memory override facility
- L** Motor Load and thermal memory analogue indication meter (29m or 39m)
- M** Auto-manual overload trip reset facility
- N** Programmed limitation of start attempts (1, 2 or 3)
- O** Phase unbalanced alarm - trip function disabled (option I, O and P disallowed)
- P** Slave auxiliary relay with main trip relay (option I, O and P disallowed)

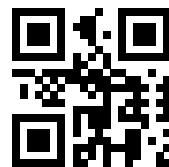
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Thermal overload protection, running stall and jam protection, earth fault and short circuit protection along with selectable start attempt limitations are features of the relay. A built in motor load current transducer is useful for indicating the % motor load through the 420mA Loop.

Available in Amp calibration range from 0,8A to 1680A split over 7 Amperage selection bands. Also available in a % calibration with the maximum load setting expressed as the full load current divided by the C.T. ratio and multiplied by 100.





Complete Motor Protection Solution to Suite :

160 – 400 Amp Motor

Standard Kit

Product Code	Description
FPR0235	324MF110A5

Programming Kit

- F** Immediate overload warning (Option I, O and P disallowed)
- G** Earth Fault
- H** Short Circuit
- I** Transfer options G and H to auxiliary relay (option F and O disallowed) with 1 s delay on main trip relay
- J** 100ms trip time for options G and H (if not selected, 1 s delay will be selected)
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- O** Phase unbalanced alarm - trip function disabled (option I, O and P disallowed)
- P** Slave auxiliary relay with main trip relay (option I, O and P disallowed)

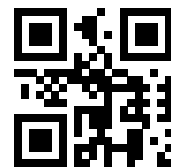
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Thermal overload protection, running stall and jam protection, earth fault and short circuit protection along with selectable start attempt limitations are features of the relay. A built in motor load current transducer is useful for indicating the % motor load through the 420mA Loop.

Available in Amp calibration range from 0,8A to 1680A split over 7 Amperage selection bands. Also available in a % calibration with the maximum load setting expressed as the full load current divided by the C.T. ratio and multiplied by 100.





Complete Motor Protection Solution to Suite :

400 – 800 Amp Motor



Standard Kit

Product Code	Description
FPR0346	325MC220A5

Programming Kit

- F** Immediate overload warning (Option I, O and P disallowed)
- G** Earth Fault
- H** Short Circuit
- I** Transfer options G and H to auxiliary relay (option F and O disallowed) with 1 s delay on main trip relay
- J** 100ms trip time for options G and H (if not selected, 1 s delay will be selected)
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- M** Auto-manual overload trip reset facility
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- O** Phase unbalanced alarm - trip function disabled (option I, O and P disallowed)
- P** Slave auxiliary relay with main trip relay (option I, O and P disallowed)

About

The 320 - 327M Series of electronic motor protection relays provide comprehensive protection required by motors running constantly at full load and occasionally beyond their limitations. Motors driving crushers, ball mills or high inertia loads especially with long run-up starting times are ideal applications.

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Available in Amp calibration range from 0,8A to 1680A split over 7 Amperage selection bands. Also available in a % calibration with the maximum load setting expressed as the full load current divided by the C.T. ratio and multiplied by 100.





Complete Motor Protection Solution to Suite :

800 – 1680 Amp Motor

Standard Kit

Product Code	Description
FPR0882	326MF220A5

Programming Kit

- F** Immediate overload warning (Option I, O and P disallowed)
- G** Earth Fault
- H** Short Circuit
- I** Transfer options G and H to auxiliary relay (option F and O disallowed) with 1s delay on main trip relay
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- O** Phase unbalanced alarm - trip function disabled (option I, O and P disallowed)

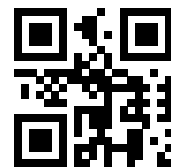
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Complete Motor Protection Solution to Suite :

18.5 - 150 KW Motor

Standard Kit

Product Code	Description
FPR0056	327MF110A1

Programming Kit

- F** Immediate overload warning (Option I, O and P disallowed)
- G** Earth Fault
- H** Short Circuit
- I** Transfer options G and H to auxiliary relay (option F and O disallowed) with 1s delay on main trip relay
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Complete Motor Protection Solution to Suite :

Accessories:

Current Transformers Class 5P10 5VA



20:1 or 20:5 with 0,8 to 12 Amps
50:1 or 50:1 with 13 to 30 Amps
100:1 or 100:5 with 31 to 80 Amps
200:1 or 200:5 with 80 to 160 Amps

500:1 or 500:5 with 160 to 400 Amps
1000:1 or 1000:5 with 400 to 800
2000:1 or 2000:5 above 1680 Amps

Option L:



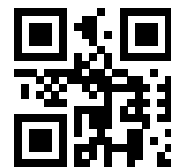
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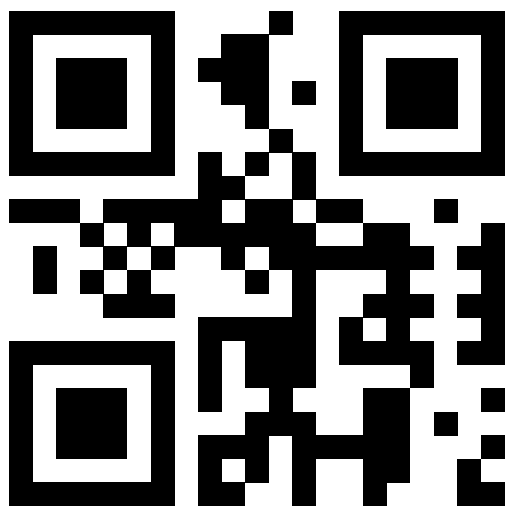
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Certificate Number : 8707QM5001

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