

Bill of Material

| પ | ty Catalog # | Description |
|-----|---|---|
| 1 | | n: Controller Hardware |
| 1 | 1756-L84ES | GUARDLOGIX 5580 PROCESSOR WITH |
| | | 20 MB STANDARD MEMORY, 6 MB |
| _ | 4757 47 | SAFETY MEMORY |
| 1 | _, _, ,,, | 7-SLOT CONTROLLOGIX CHASSIS |
| 1 | 1756-PA50 | 85-265 VAC SLIM POWER SUPPLY |
| | | (8A @ 5V DC) |
| | System: | Communication Hardware |
| 1 | | STRATIX 5400 SWITCH |
| _ | | 8FE, 4GE PORTS |
| 1 | 1756-EN2T(R) | 1 or 2-PORT CLX HI-CAP ETHERNET/IP |
| | | |
| | | Motion Hardware |
| 1 | 2198-P031 | KINETIX 5700 DC BUS SUPPLY 10A |
| 2 | 2198-D006-ERS4 | KINETIX 5700, 2×2.5A DUAL AXIS |
| | | INVERTER ADVANCED SAFETY(ETHERNET) |
| 2 | VPL-A1002A-CJ12AS | KINETIX VP LOW INERTIA MOTOR, |
| | | IEC 100mm FRAME SIZE, |
| | | 1500 RPM RATED SPEED |
| | | One cable between VPL Motor and Kinetix |
| | JU arive yieias simpiiti dback, motor brake, a | cation and reduces costs. One cable for |
| 1 | | AA01 SINGLE CABLE FOR |
| 1 | 2090-C3BMIDE-14 | KINETIX 5700, 1 METER |
| No | te: Catalog numbers co | onsist of characters, each of which |
| | | ion or option for that component. Reference |
| | | N-E Kinetix Motion Control Selection Guide |
| for | additional information | 1 |
| | | Drive Hardware |
| 1 | 20G11BC1K0AN0NN | |
| 1 | 20011DC1KUMINUININ | 200 HP FRAME |
| 1 | 20-750-S3 POW | FRFLEX 755 INTEGRATED SAFETY - |
| 1 | | TORQUE OFF OPTION MODULE |
| | | TO DOUBLE ON THE COURT ON MOON HE |

Note: PowerFlex drives come in many variations - before ordering, you will need to identify voltage rating, horsepower, enclosure type. Please refer to the PowerFlex Selection Guide (PFLEX-SG002-EN-P) for additional details on selecting the right drive for you application.

| | | C/O Hardware - Compact 5000 I/O |
|---|---------------|------------------------------------|
| 1 | 5069-AENTR | ETHERNET/IP ADAPTER |
| 1 | 5069-IB8S | 8 POINT 24 VDC INPUT SAFETY |
| | | MODULE |
| 1 | 5069-OBV8S | 8 POINT 24VDC SOURCING/BIPOLAR |
| | | OUTPUT SAFETY MODULE |
| | Distributed I | /O Hardware - POINT GUARD I/O |
| 1 | 1734-AENTR | 1734 DUAL PORT ETHERNET IP ADAPTER |
| 1 | 1734-IB8S | 24V DC 8 POINT INPUT SAFETY MODULI |
| 1 | 1734-OB85 | 24V DC 8 POINT SOURCING OUTPUT |
| | | SAFETY MODULE |
| 4 | 1734-TB | MODULE BASE W/REMOVABLE |
| | | IEC SCREW TERMINALS |
| 1 | 1794-PS13 | 85-264V AC TO 24V DC 1.3A |
| | | POWER SUPPLY |
| | N:-4ib- | ated T/O Handware OTHER |
| _ | | uted I/O Hardware - OTHER |
| 1 | 1732ES-IB16 | 24V DC 16 INPUT/ETHERNET/IP SAFETY |
| | | HMI Hardware |
| 1 | 2715-B10CD | PANELVIEW PLUS 5500 10" COLOR |
| | | TOUCH TERMINAL, ETHERNET |
| | | |
| | | Pacammandad Saftwana |
| 1 | | Recommended Software |
| 1 | 9324-RLD300 | |

About this Configuration

GuardLogix 5580 Safety controller is first in scalable Safety Performance Levels (PLs) and Safety Integrity Levels (SILs) for machine safety. The risk assessment is the key to defining the safety requirements The controller has Integrated safety and offers reduced system complexity and hardware cost savings. GuardLogix 5580 will also support existing safety I/O, new Compact 5000 safety I/O and distributed I/O. The combination of the high performance controller and the new high performance I/O, faster screw to screw times will allow for faster safety reaction times

About the Products

Logix Controllers

- · A common set of controls, networks, and programming software available in multiple hardware platforms
- · Multiple control disciplines in a single controller sequential / motion / drives / process
- Multiple Program Languages available in all controllers Ladder Diagram, Function Block, Structured Text, and Sequential Function Chart
- For GuardLogix controller, only ladder diagram is available for 'safety task'
- · Tag-based architecture instead of addresses native in the controller

Compact 5000 I/O

- A new generation of Compact I/O
- · High performance control in a compact design
- Scan time improvements as much as 10x
- Mixture of Standard and Safety I/O available

PanelView 5500

- · Reuse tags from Logix controllers by choosing them from a list
- 4" 15" screen sizes available
- Touchscreen, keypad or combination
- Integrated EtherNet/IP, add-on communications for many other networks
- · Advanced Operator Interface features such as trending, expressions, data logging, animation.

PowerFlex Drives

- Serves applications ranging from 0.2 kW (0.25 hp) to 6,770 kW (9,000 hp).
- · Common set of networks, operator interface and programming for all PowerFlex drives
- · Communication Options Ethernet/IP, ControlNet, Devicenet, DH Plus, RIO, 3rd party networks
- · Hundreds of pieces of status and diagnostic information are shared with Logix controllers directly

Kinetix Servos

- Scalable solution for applications from 100W to 112KW
- · Integrated platform to simplify machine design and commissioning
- · Smart Motor Technology to provide automatic identification of correct motor-to-drive connectivity

POINT Guard I/O

- Fits into the standard POINT I/O™ system
- Communicates by using the CIP™ Safety protocol over EtherNet/IP™ for GuardLogix™ controllers
- For EtherNet/IP connectivity, use a POINT I/O EtherNet/IP adapter (1734-AENT, 1734-AENTR)
- 1734 POINT Guard I/O™ system, Supports 24V DC I/O circuits and Includes analog input circuits

ArmorBlock Guard I/O

- Used only with GuardLogix®, Compact GuardLogix, and Armor™ GuardLogix, configurable with a
 module-specific profile in Studio 5000 Logix Designer® software
- Provides PLd-rated, single channel safety inputs and PLe-rated, dual channel, safety inputs; safety outputs rated up to PLe
- Available in bipolar and sourcing safety output configurations
- Includes dual Ethernet ports for Linear and Device Level Ring topologies

Stratix Switches and Network Infrastructure

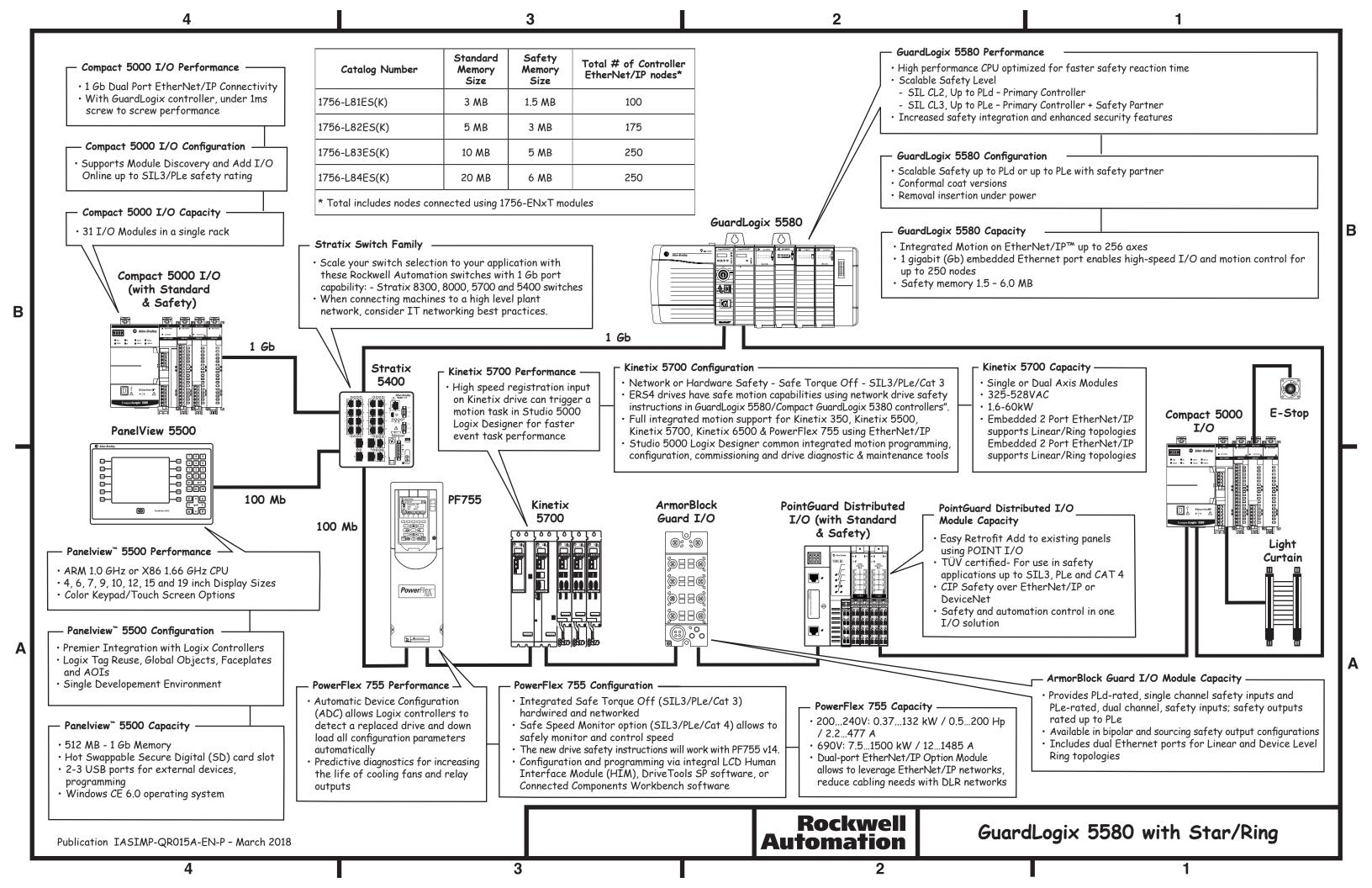
- Stratix 5400, 5700, 8000 and 8300 Managed switches offer Loop Prevention, Security Services, Diagnostic Information, Segmentation Services(VLANs), Prioritization Services(QoS), and Multicast Management Services.
- Stratix 2000 Unmanaged Switches offer no layer 2 or layer 3 management functionality, but offer lower cost.
- Consider Network Address Translation (NAT), available with the 9300-ENA NAT device and the Stratix 5400/5700 with NAT option, depending on your application requirements.

For More Information and Help

For more information contact your local distributor or Rockwell Automation sales representative.

www.ab.com (Product Directory, Publication Library, Technical Support)





Bill of Material

| System: Controller Hardware 1 1756-L84ES GUARDLOGIX 5580 PROCESSOR WITH 20 MB STANDARD MEMORY, 6 MB SAFETY MEMORY |
|--|
| 20 MB STANDARD MEMORY, 6 MB |
| • |
| SAFETY MEMORY |
| on en memori |
| 1 1756-A7 7-SLOT CONTROLLOGIX CHASSIS |
| 1 1756-PA50 85-265 VAC SLIM POWER SUPPLY |
| (8A @ 5V DC) |
| System: Communication Hardware |
| 1 1783-HMS8T4CGN STRATIX 5400 SWITCH |
| 8FE, 4GE PORTS |
| 1 1756-EN2T(R) 1 or 2-PORT CLX HI-CAP ETHERNET/IF |
| |
| Motion Hardware |
| 1 2198-P031 KINETIX 5700 DC BUS SUPPLY 10A |
| 2 2198-D006-ERS4 KINETIX 5700, 2x2.5A DUAL AXIS |
| INVERTER ADVANCED SAFETY(ETHERNET |
| 2 VPL-A1002A-CJ12AS KINETIX VP LOW INERTIA MOTOR, |
| IEC 100mm FRAME SIZE, |
| 1500 RPM RATED SPEED |
| Single-Cable Technology - One cable between VPL Motor and Kinetix |
| 5700 drive yields simplification and reduces costs. One cable for |
| feedback, motor brake, and motor power. |
| 1 2090-CSBM1DE-14AA01 SINGLE CABLE FOR |
| KINETIX 5700, 1 METER |
| Note: Catalog numbers consist of characters, each of which |
| identifies a specific version or option for that component. Reference |
| Publication GMC-SG001-EN-E Kinetix Motion Control Selection Guide for additional information |
| Tor additional injurination |
| Drive Hardware |

| Note: PowerFlex drives come in many variations - before ordering, |
|--|
| you will need to identify voltage rating, horsepower, enclosure type. |
| Please refer to the PowerFlex Selection Guide (PFLEX-SG002-EN-P) |
| for additional details on selecting the right drive for you application. |
| |

| 1 | 5069-AENTR | C/O Hardware - Compact 5000 I/O ETHERNET/IP ADAPTER | | | | |
|---|----------------------------------|--|--|--|--|--|
| 1 | 5069-IB8S | 8 POINT 24 VDC INPUT SAFETY | | | | |
| | | MODULE | | | | |
| 1 | 5069-OBV8S | 8 POINT 24VDC SOURCING/BIPOLAR | | | | |
| | | OUTPUT SAFETY MODULE | | | | |
| | | | | | | |
| | Distributed I | /O Hardware - POINT GUARD I/O | | | | |
| 1 | 1734-AENTR | 1734 DUAL PORT ETHERNET IP ADAPTER | | | | |
| 1 | 1734-IB8S | 24V DC 8 POINT INPUT SAFETY MODULE | | | | |
| 1 | 1734-OB85 | 24V DC 8 POINT SOURCING OUTPUT | | | | |
| | | SAFETY MODULE | | | | |
| 4 | 1734-TB | MODULE BASE W/REMOVABLE | | | | |
| | | IEC SCREW TERMINALS | | | | |
| 1 | 1794-PS13 | 85-264V AC TO 24V DC 1.3A | | | | |
| | | POWER SUPPLY | | | | |
| | | | | | | |
| | Distributed I/O Hardware - OTHER | | | | | |
| 1 | 1732ES-IB16 | 24V DC 16 INPUT/ETHERNET/IP SAFETY | | | | |
| | | 140.5 | | | | |
| _ | | HMI Hardware | | | | |
| 1 | 2715-B10 <i>C</i> D | PANELVIEW PLUS 5500 10" COLOR | | | | |
| | | TOUCH TERMINAL, ETHERNET | | | | |
| | | Recommended Software | | | | |
| | | | | | | |
| 1 | 0.5.271 121 12.571711 | | | | | |
| 1 | 9324-RLD300 | V 31 STANDARD FDITION | | | | |

About this Configuration

GuardLogix 5580 Safety controller is first in scalable Safety Performance Levels (PLs) and Safety Integrity Levels (SILs) for machine safety. The risk assessment is the key to defining the safety requirements The controller has Integrated safety and offers reduced system complexity and hardware cost savings. GuardLogix 5580 will also support existing safety I/O, new Compact 5000 safety I/O and distributed I/O. The combination of the high performance controller and the new high performance I/O, faster screw to screw times will allow for faster safety reaction times

About the Products

Logix Controllers

1 20G11BC1K0ANONNNNN

- · A common set of controls, networks, and programming software available in multiple hardware platforms
- · Multiple control disciplines in a single controller sequential / motion / drives / process

POWERFLEX 755 AC DRIVE.

200 HP FRAME

SAFE TORQUE OFF OPTION MODULE

1 20-750-S3 POWERFLEX 755 INTEGRATED SAFETY -

- Multiple Program Languages available in all controllers Ladder Diagram, Function Block, Structured Text, and Sequential Function Chart
- For GuardLogix controller, only ladder diagram is available for 'safety task'
- · Tag-based architecture instead of addresses native in the controller

Compact 5000 I/O

- · A new generation of Compact I/O
- · High performance control in a compact design
- Scan time improvements as much as 10x
- Mixture of Standard and Safety I/O available

PanelView 5500

- · Reuse tags from Logix controllers by choosing them from a list
- 4" 15" screen sizes available
- · Touchscreen, keypad or combination
- Integrated EtherNet/IP , add-on communications for many other networks
- · Advanced Operator Interface features such as trending, expressions, data logging, animation.

PowerFlex Drives

- Serves applications ranging from 0.2 kW (0.25 hp) to 6,770 kW (9,000 hp).
- · Common set of networks, operator interface and programming for all PowerFlex drives
- · Communication Options Ethernet/IP, ControlNet, Devicenet, DH Plus, RIO, 3rd party networks
- · Hundreds of pieces of status and diagnostic information are shared with Logix controllers directly

Kinetix Servos

- Scalable solution for applications from 100W to 112KW
- Integrated platform to simplify machine design and commissioning
- · Smart Motor Technology to provide automatic identification of correct motor-to-drive connectivity

POINT Guard I/O

- Fits into the standard POINT I/O™ system
- · Communicates by using the CIP™ Safety protocol over EtherNet/IP™ for GuardLogix™ controllers
- For EtherNet/IP connectivity, use a POINT I/O EtherNet/IP adapter (1734-AENT, 1734-AENTR)
- 1734 POINT Guard I/O™ system, Supports 24V DC I/O circuits and Includes analog input circuits

ArmorBlock Guard I/O

- Used only with GuardLogix®, Compact GuardLogix, and Armor™ GuardLogix, configurable with a
 module-specific profile in Studio 5000 Logix Designer® software
- Provides PLd-rated, single channel safety inputs and PLe-rated, dual channel, safety inputs; safety outputs rated up to PLe
- · Available in bipolar and sourcing safety output configurations
- Includes dual Ethernet ports for Linear and Device Level Ring topologies

Stratix Switches and Network Infrastructure

- Stratix 5400, 5700, 8000 and 8300 Managed switches offer Loop Prevention, Security Services, Diagnostic Information, Segmentation Services(VLANs), Prioritization Services(QoS), and Multicast Management Services.
- Stratix 2000 Unmanaged Switches offer no layer 2 or layer 3 management functionality, but offer lower cost.
- Consider Network Address Translation (NAT), available with the 9300-ENA NAT device and the Stratix 5400/5700 with NAT option, depending on your application requirements.

For More Information and Help

For more information contact your local distributor or Rockwell Automation sales representative.

www.ab.com (Product Directory, Publication Library, Technical Support)

