

DCS800-S0, industrial drives

Option descriptions

Code*	Variant	Description
3AFE64532871	DriveWindow Light	DriveWindow Light is included as standard with every DCS800. It is a reduced version of ABB's full DriveWindow package. DriveWindow Light communicates using a standard 9-pin male-to-female serial cable (RS-232). DriveWindow Light supports Microsoft Windows operating systems. -Upload/download drive parameter files, save and restore -Compare files -Drive Adaptive Programming support -Trending (on a limited basis) -Drive Control (Start, Stop, Speed Ref)
3AFE64547968	DriveWindow without hardware	DriveWindow install CD (upgrade). Hardware not included.
3AUA0000040000	DriveWindow with USB hardware	DriveWindow is a software designed for online ACS600, ACS800, DCS600 and DCS800 drive commissioning and maintenance purposes. Connection to the drive is through a USB card and high speed fiber optic cable. The drive requires an optional SDCS-COM-8x board card to support the fiber optic connection. DriveWindow supports Microsoft Windows operating systems (Windows NT4, 2000, XP and Vista). - Parameter editing and monitoring - Upload/download drive parameter files, save and restore - Compare files - Trending up to six signals - Drive Control for commissioning and test - OPC remote access - Includes, DriveWindow installation CD, RUSB-02 USB to DDCS converter and fiber optic cables (10 meters) - SDCS-COM-8x not included
3AUA0000041141	DriveBrowser	DriveBrowser software is designed for online drive commissioning and maintenance purposes. DriveBrowser uses a computer's standard EtherNet port to connect to an EtherNet/IP or ModBus-TCP network. It is compatible with the ACS350, ACS355, ACS550, ACH550, DCS800 and ACS800* drives (*ACS800 standard control program). Drives require configuration and connection to an EtherNet/IP or ModBus-TCP network. DriveBrowser supports Microsoft Windows operating systems. - Configure network connections - Parameter editing and monitoring - Upload/download drive parameter files, save, print - Compare files - Trending up to four signals - Drive Control for commissioning and test - SECG-01 and SEDG-01 not included
AIMA-01-KIT	I/O extension adapter (requires DDCS option)	The I/O extension adapter adds support for 3 additional (R) type adapters for the DCS800. This module is mounted by the user external from the drive unit. Adapter is DIN rail mountable. The SDCS-COM-8x is required for support of this option.
CDP312R	Optional Control Panel	CDP312R Control panel option. Requires additional mounting platform and SDCS-Com-8x drive interface card.
D4 BUSBAR (LEFT) D4 BUSBAR (RIGHT)	DC busbar for Frame D4 module	This bus bar allows four (4) wires to be connected to the DC output terminal of the size D4 drive. This is required for DCS800-S0x -0820, -0900, and -1000 drives and optional on other D4 drives. See Hardware Manual Mechanical Installation for details. (One left and one right per drive)
D6 BUSBARS QTY 5	AC & DC busbars for Frame D6 module	Busbar kit for multiple wire connections on frame D6 DCS800 module drives. The kit includes five (5) tinned copper busbar ears and mounting hardware. Dimension 250x140x100mm (LxHxD) and 10mm thick.
DCF803-0016	Field supply, 16 A Non-Reversing (1 or 3 Ph, 1Q)	Externally mounted, half controlled 3-phase field exciter, with single quadrant operation. This field supply is current regulated with a max output current of 16 amps. With 1-phase input, an autotransformer is recommended for voltage adaptation. An input line reactor is required when supply voltage is over 400 Vac. Fuses are always required. DSL communication cable is required. (See Below) Communication to the converter unit is required via the SDC-DSL-4 board, standard in D5-D7 and all drives 600 Vdc or greater; otherwise optional.
DCF803-0035	Field supply, 35 A Non-Reversing (1 or 3 Ph, 1Q)	Same as above except max output current is 35 amps.
DCF803-0050	Field supply, 50 A Non-Reversing (1 Ph, 1Q)	Externally mounted, half controlled 1 phase field exciter, with single quadrant operation. This field supply is current regulated with a max output current of 50 amps. Input line fuses required. DSL communication cable is required. (See Below) Communication to the converter unit is required via the SDC-DSL-4 board, standard in D5-D7 and all drives 600 Vdc or greater; otherwise optional.

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DCF803-0060	Field supply, 60 A Non-Reversing (1 Ph, 1Q)	Same as above except max output current is 60 amps.
DCF804-0050	Field supply, 50 A Reversing (1 Ph, 4Q)	Externally mounted, full controlled 1phase field exciter, with four quadrant operation (supports field reversal). This field supply is current regulated with a max output current of 50 amps. Input line fuses required. DSL communication cable is required. (See Below) Communication to the converter unit is required via the SDC-DSL-4 board, standard in D5-D7 and all drives 600 Vdc or greater; otherwise optional.
DCF804-0060	Field supply, 60 A Reversing (1 Ph, 4Q)	Same as above except max output current is 60 amps.
DCS800-S0x-xxxx-05+S199	DCS800-S0x-xxxx-05+S199	For high current field supply requirements a standard DCS800 converter unit will be used as the field controller. The converter drive can be used to supply up to 520amp for motor field in a single quadrant or four quadrant configuration with 3 phase input supply. An over voltage protection unit DCF506-0140-51 or -0520 must be used. DSL communication cable is required. (See Below) The SDSCS-DSL-4 communication board is required in the field converter and the armature converter for proper control
DCF506-0140-51	Overvoltage protection - field supply, non-motor 4Q	The three phase field supply converters DCS800-S01 and -S02 drives need a separate active over voltage protection for proper operation on the inductive load of a motor field. This unit will protect the drive against inadmissible high voltages. The DCF506-0140 is to be used with -0020-05 through -0140-05 units.
DCF506-0520-51	Overvoltage protection - field supply, non-motor 4Q	The three phase field supply converters DCS800-S01 and -S02 drives need a separate active over voltage protection for proper operation on the inductive load of a motor field. This unit will protect the drive against inadmissible high voltages. The DCF506-0520 is to be used with -0200-05 through -0520-05 units.
DCF505-0140-51	Overvoltage protection - non-motor 2Q	Non motor applications of the DCS800 on inductive loads require a separate active over voltage protection. For simple applications of this type utilizing a 2Q configuration (DCS800-S01-xxxx-05) select this unit for protecting the drive against inadmissible high voltages. The DCF505-0140 is to be used with -0020-05 through -0140-05 units.
DCF505-0520-51	Overvoltage protection - non-motor 2Q	Non motor applications of the DCS800 on inductive loads require a separate active over voltage protection. For simple applications of this type utilizing a 2Q configuration (DCS800-S01-xxxx-05) select this unit for protecting the drive against inadmissible high voltages. The DCF505-0520 is to be used with -0200-05 through -0520-05 units.
DCF505-1200-51	Overvoltage protection - non-motor 2Q	Non motor applications of the DCS800 on inductive loads require a separate active over voltage protection. For simple applications of this type utilizing a 2Q configuration (DCS800-S01-xxxx-05) select this unit for protecting the drive against inadmissible high voltages. The DCF505-1200 is to be used with -0610-05 through -1200-05 units.
DCS800- DEMOCASE	DCS800 Democase	Powered by 115VAC the DCS800 Democase includes a DCS800 frame D1 drive mounted on a panel. Included is a motor with analog tachometer and an I/O board.
DCS800-DSL cable P5M	DSL communication cable 0.5 m long	Interface cable for communication between the DCF external field supply and the DCS800 drive and/or between DCS800 drives. The cable supports communication for 12 pulse operation and drive-to-drive communication with the SDSCS-DSL-4 board. This cable is 21 inches (0.5 m) long and has ferrule-tipped wires on both ends.
DCS800-DSL cable 2M	DSL communication cable 2 m long	Interface cable for communication between the DCF external field supply and the DCS800 drive and/or between DCS800 drives. The cable supports communication for 12 pulse operation and drive-to-drive communication with the SDSCS-DSL-4 board. This cable is 6.5 feet (2 m) long and has ferrule-tipped wires on both ends.
DCS800-DSL cable 4M	DSL communication cable 4 m long	Interface cable for communication between the DCF external field supply and the DCS800 drive and/or between DCS800 drives. The cable supports communication for 12 pulse operation and drive-to-drive communication with the SDSCS-DSL-4 board. This cable is 13 feet (4 m) long and has ferrule-tipped wires on both ends.
DCS800-DSL cable 10M	DSL communication cable 10 m long	Interface cable for communication between the DCF external field supply and the DCS800 drive and/or between DCS800 drives. The cable supports communication for 12 pulse operation and drive-to-drive communication with the SDSCS-DSL-4 board. This cable is 33 feet (10 m) long and has ferrule-tipped wires on both ends.
DCS800-DSL cable 20M	DSL communication cable 20 m long	Interface cable for communication between the DCF external field supply and the DCS800 drive and/or between DCS800 drives. The cable supports communication for 12 pulse operation and drive-to-drive communication with the SDSCS-DSL-4 board. This cable is 66 feet (20 m) long and has ferrule-tipped wires on both ends.
FEA-01	Resolver F-type extension adapter	The FEA-01 DIN-rail extension adapter is required for mounting the FEN-21 to the back panel. FEA-01 converts the signal to fiber optics which is connected to channel 1 of the DCS800's COM-8x board. ALSO REQUIRED: Fiber optic cable, SDCS-COM-8x

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FEN-21	Resolver interface board (F-type)	The FEN-21 resolver interface module offers an improved speed feedback signal compared to the RRIA-01. It should be selected for all applications that require speed feedback from the resolver.
J409* ACS/H-CP-EXT-IP66	NEMA 4x Cabinet Panel Mounting	Allow remote mounting of the DCS800-PAN Operator Panels on a larger NEMA 4X (IP66) enclosure or remote panel. The kit maintains NEMA 4X integrity of the mounting location. All necessary hardware and a mounting template are provided in addition to a 3m panel cable. When mounted, the operator panel is not removable from the front of the enclosure. The operator panel must be purchased separately.
K451 RDNA-01-KIT	DeviceNet adapter RDNA-01	The DeviceNet network uses a linear bus topology. Terminating resistors are required on each end of the trunk line. Drop lines as long as 6 meters (20 feet) each are permitted, allowing one or more nodes to be attached. DeviceNet allows branching structures only on drop lines.
K454 RPBA-01-KIT	ProfiBus-DP adapter RPBA-01	ProfiBus is an open serial communication standard that enables data exchange between automation components. The transmission medium of the bus is a twisted pair cable (according to RS-485 standard). The maximum length of the bus cable is 100 to 1200 meters, depending on the transmission rate. Up to 31 stations can be connected to the same ProfiBus system without use of repeaters.
K457 RCAN-01-KIT	CANOpen adapter RCAN-01	The RCAN-01 CANOpen adapter module enables the connection of the ABB drive to a CANOpen system. CANOpen is a higher level protocol based on the CAN (Control Area Network) serial bus system and the CAL (CAN Application Layer). The RCAN-01 fulfills CiA (CAN in Application) standard DSP-402 (Drives and Motion Control), supporting the Manufacturer Specific operating mode only. The physical medium of CANOpen is a differentially driven two-wire bus line with common return according to ISO 11989. The RCAN-01 supports baud rates of 10 kbit/s to 1 Mbit/s. The module provides DIP-switches for selection of the node number and baud rate. The node number and baud rate can alternatively be set via the control panel of the drive.
K458 RMBA-01-KIT	ModBus adapter RMBA-01	ModBus is a serial, asynchronous protocol. The ModBus protocol does not specify the physical interface. Typical physical interfaces are RS-232 and RS-485. The RMBA-01 provides a galvanically isolated RS-485 interface. ModBus is designed for integration with Modicon PLCs or other automation devices, and the services closely correspond to the PLC architecture. The RMBA-01 supports the RTU protocol only.
K462 RCNA-01-KIT	ControlNet adapter RCNA-01	The ControlNet network uses a RG-6 quad shielded cable or fiber with support for media redundancy. The RCNA-01 adapter module supports only RG-6 quad shielded cable (coax) for the bus connection. ControlNet is flexible in topology options (bus, tree, star) to meet various application needs. The fieldbus speed is 5 Mbit/s. The RCNA-01 ControlNet adapter module can not originate connections on its own, but a scanner node can open a connection towards it. The ControlNet protocol is implemented according to the ControlNet international specification for a communication adapter.
K466 RETA-01-KIT	EtherNet adapter RETA-01	The RETA-01 module supports the ModBus/TCP and EtherNet/IP network protocols. ModBus/TCP is a variant of the ModBus family of simple, vendor neutral communication protocols intended for supervision and control of automation equipment. EtherNet/IP is based on the Common Industrial Protocol (CIP), which is also the framework for both the ControlNet and DeviceNet networks. The RETA-01 supports 10/100 Mbps transfer rate with network connection made with standard RJ-45 connector.
K467 RETA-02-KIT	Profinet I/O adapter	The RETA-02 module supports both ModBus/TCP and Profinet IO network protocols. ModBus/TCP is a variant of the ModBus family of simple, vendor neutral communication protocols intended for supervision and control of automation equipment. Profinet IO is an open standard for industrial EtherNet, intended for configuration, supervision and control of automation equipment. The RETA-02 supports 10/100 Mbps transfer rate with network connections made with CAT 5 wiring and RJ-45 connectors. Both star and bus topology options are supported.
K469 RECA-01-KIT	EtherCat adapter RECA-01	The adapter module supports the CANOpen DSP 402 (Device Profile Drives and Motion Control) profile or the ABB Drives profile. The RECA-01 implements the EtherCAT state machine, four sync manager channels to control the access to the application memory, two watch dogs and specified EtherCAT services, addressing modes and FMMUs.
L500 RAIO-01-KIT	Analog I/O extension module	The analog I/O extension module offers two unipolar current (0[4]...20 mA) or bipolar voltage ($\pm 0[2]$...10 V or $\pm 0[2]$...2 V) inputs and two unipolar current (0[4]...20 mA) outputs. Analog unipolar inputs are 12 bit resolution. Bipolar inputs are 11 bit resolution. Analog outputs are 12 bit resolution. The analog inputs and outputs are galvanically isolated as a group, from each other and the power supply.

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L501 RDIO-01-KIT	Digital I/O extension board	The digital I/O extension module offers three digital inputs (24...250 VDC or 110...230 VAC) and two relay outputs (1250 VA/250 VAC or 5 A/24 VDC). The isolation voltage between the digital inputs, digital outputs and power supply is 2.5 kV (1.5 kV between DI2 and DI3). AP programming may be required. See DCS800 firmware manual. Also see QR code for digital output mapping instructions.
L502 RTAC-01-KIT	Encoder interface board	The pulse encoder interface module offers a differential or single ended interface for a digital pulse encoder. The module is capable of operating from either a 15 or 24 VDC signal with a max frequency of 200kHz. When the drive's internal power supply is used to power the encoder, additional options may not be installed. Check the encoder's power supply requirements prior to installation.
L508 SDCS-COM-81	DDCS communications board	Fiber optic communication interface board and CDP312RD panel support. <ul style="list-style-type: none"> - CH 0 - 10Mb - overriding system control (APC2, AC80, etc.) - CH 1 - 5Mb - is used for DDCS I/O extension. AIMA-01 - CH 2 - 10Mb - Master-Follower link (drive-to-drive) - CH 3 - 10Mb - PC tool such as DriveWindow - X19 is used for CDP312RD panel
L509 SDCS-COM-82	DDCS communications board	Fiber optic communication interface board and CDP312RD panel support. <ul style="list-style-type: none"> - CH 0 - 5Mb - overriding system control (APC2, AC80, Nxxx moudule) - CH 1 - 5Mb - is used for DDCS I/O extension. AIMA-01 - CH 2 - 10Mb - Master-Follower link (drive-to-drive) - CH 3 - 10Mb - PC tool such as DriveWindow - X19 is used for CDP312RD panel
L516 RRIA-01	Resolver interface board	The resolver interface module offers interface for an analog resolver connection. A resolver may be used to obtain accurat position (angle) feedback from a motor shaft. MUST USE FIRMWARE REVISION 3.6 OR ABOVE.
L517 RTAC-03-KIT	TTL encoder interface adapter	TTL incremental pulse encoder Interface module. The module is capable of operating at 24 VDC signal with a max frequency of 200kHz.
NDBU-85C	Branching Unit	Star connection branching unit with nine (9) output connections. Eight (8) output connections rated for 5Mb, one (1) rated for 10Mb.
NDBU-95C	Branching Unit	Star connection branching unit with 9 output connections. Nine (9) output connections rated for 10Mb.
NETA-21-KIT	Internet adapter	The NETA-21 EtherNet adapter module is an optional device for browser-based remote monitoring of ABB drives via EtherNet. Multiple drives (up to 9) can be connected to the network. The NETA-21 connects to the DCS800 using the NEXA-21 extension unit which mounts to the NETA-21. A fiber optic channel on the NEXA-21 connects to the DCS800 fiber optic interface adapter, SDCS-COM-81 or SDCS-COM-82.
NEXA-21	DDCS Extension Unit	Fiber optic adapter for NETA-21
NOCR-01	Fiber Optic Converter / Repeater	The NOCR (optical converter and repeater) converts between different types of optical cable. The NOCR can convert plastic fiber optic to glass fiber optic (GOF) or hard clad silica (HCS) and back to plastic. The NOCR can be used as a repeater for long distance (up to 1200m) transmission using GOF or HCS for long distance link.
NPLC-03C	Panel Extension Cable	Screened control panel cable (RJ11 to RJ11) for the CDP312R panel, 3.0m
NPMP-01-KIT	Cabinet Panel Mounting	Legacy Panel mounting platform for the CDP312R, includes 3 meter cable. This panel mounting is larger than the RPMP-11. It includes screw mounting for larger gauge steel panels and NEMA 12 rated gasket. The CDP312RD panel must be purchased separately.
OCAT-01	Panel Extension Cable	7 foot CAT patch cable allows remote operation of the DCS800-PAN panel
OPMP-01	Cabinet panel mounting kit	Control panel mounting platform allows remote mounting of the DCS800 control panel on an enclosure or remote panel. The kit maintains UL type 12 integrity of the mounting location. Adapters, 3 m (10 ft) cable and mounting hardware are included in this kit. With this mounting arrangement, the keypad is removable from the panel in a fashion identical to a drive-mounted keypad.
RPMP-11	Cabinet Panel Mounting	Panel mounting platform for CDP312R is NEMA 12 rated, includes the 3 meter cable. (Requires SDCS-COM-8x). The CDP312R panel must be purchased seperately. Maximum door panel thickness 14ga (2.5mm)

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RPMP-13	Cabinet Panel Mounting with control panel	Panel mounting platform for CDP312R is NEMA 12 rated, includes the 3 meter cable. (Requires SDCS-COM-8x) Maximum door panel thickness 14ga (2.5mm)
RSCM-01	Resolver signal conditioning board	Can be used in conjunction with RRIA-01 board to double the resolver voltage. Externally mounted.
Delete +S164	Delete Internal Field Supply in D4+ or D5 drives	Delete internal field supply in D4+ or D5 drives. A field supply is included by default in these drives stocked in the USA. To order without the field supply, delete the +S164 plus code. Special orders only.
S186 SDCS-SUB-4	Low mains voltage adapter board	Adapts the drive to operate with mains voltage between 30 and 120 volts. SDCS-SUB-4 board alters the voltage measurement circuit of the drive to improve mains synchronization and DC measurement resolution. Mounts to D1-D4 modules and all DCS800-EP drives.
S199 SDCS-DSL-4	Drive-to-drive and external field supply communication	The DSL-4 board provides a drive-to-drive communication dedicated to the DCS800, based on CAN bus. This communication adapter is also used in 12-pulse operation and communication/control of external field supplies. It is standard on D4+ and D5-D7.
S204# SDCS-MEM-8 + DC crane	Crane control software#	This software is designed to provide safety and control for the crane and hoist industries. Standard DCS800 firmware includes brake control. Crane software adds torque proving, position measurement, torque monitoring, joystick interface, speed optimization and shared motion. This software is provided on a ControlBuilder flash memory card. Note: an encoder is required for all crane and hoist applications. [Requires application review and industrial sales approval]
SDCS-IOB card holder	Card holder for SDCS-IOB-2x and SDCS-IOB-3	This card holder is used to mount the IOB-2x or IOB-3 board to a back panel. With (2) universal Phoenix clamp 1202713 (not included), it is possible to mount the card holder to a standard DIN-rail system horizontally or vertically. Includes (6) screen clamps to attach the flat cables to the card holder. See diagram in the hardware manual. NOTE: Without this card holder, IOB boards can be mounted to the back panel by using stand-offs.
SDCS-IOB-21 / IOB-3 kit	IOB-21 / IOB-3 combination kit	Kit includes (1) SDCS-IOB-21 module; (1) SDCS-IOB-3 module; set of (3) cables. Please see related descriptions above for specific features.
SDCS-IOB-21 kit	External isolated digital I/O board - 24 VDC	STANDALONE board includes IOB-21 module and one ribbon cable. Replaces the standard digital inputs and outputs with 8 DI/O points externally mounted with input voltage level of 24...48V DC. The inputs are filtered and galvanically isolated. Terminals X6 & X7 on the main control must not be used when a SDCS-IOB-2x board is installed. Note: If IOB-3 is also required, you must order the combination kit instead. (See above.)
SDCS-IOB-22 / IOB-3 kit	IOB-22 / IOB-3 combination kit	Kit includes (1) SDCS-IOB-22 module; (1) SDCS-IOB-3 module; set of (3) cables. Please see related descriptions above for specific features.
SDCS-IOB-22 kit	External isolated digital I/O board - 115 VAC	STANDALONE board includes IOB-22 module and one ribbon cable. Replaces the standard digital inputs and outputs with 8 DI/O points externally mounted with input voltage level of 115 VAC. The inputs are filtered and galvanically isolated. Terminals X6 & X7 on the main control must not be used when a SDCS-IOB-2x board is installed. Note: If IOB-3 is also required, you must order the combination kit instead. (See above.)
SDCS-IOB-23 / IOB-3 kit	IOB-23 / IOB-3 combination kit	Kit includes (1) SDCS-IOB-23 module; (1) SDCS-IOB-3 module; set of (3) cables. Please see related descriptions above for specific features.
SDCS-IOB-23 kit	External isolated digital I/O board - 230 VAC	STANDALONE board includes IOB-23 module and one ribbon cable. Replaces the standard digital inputs and outputs with 8 DI/O points externally mounted with input voltage level of 230 VAC. The inputs are filtered and galvanically isolated. Terminals X6 & X7 on the main control must not be used when a SDCS-IOB-2x board is installed. Note: If IOB-3 is also required, you must order the combination kit instead. (See above.)
SDCS-IOB-3 kit	External isolated analog I/O board	STANDALONE board includes IOB-3 kit and two ribbon cables. The IOB-3 adds 4 analog inputs, 3 analog outputs, a galvanically isolated pulse encoder interface and a current source for temperature measuring devices. Note: If IOB-21, IOB-22 or -23 is also required, you must order the combination kit instead. (See above)
SDCS-MEM-8	ControlBuilder license w/ compact flash memory card	Compact flash memory card with electronic license control for IEC programming software. This unique memory card for the DCS800 unlocks the programming features of this exceptionally flexible tool. ControlBuilder is the PC tool package that includes IEC programming (included with each drive). This programming tool is compliant with the IEC 61131-3 standard. The target audience for this optional programming tool is Systems Integrators, OEMs and large users who need the ability to develop their own application specific programs or wish to eliminate the need for an external controller. ControlBuilder supports Microsoft Windows operating systems.

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SDCS-UCM-1	External DC voltage measurement kit	Allows drive to measure the DC motor voltage externally (e.g., at the motor) instead of at the drive terminals. This, for example, might be beneficial when a DC contactor is in use. Includes SDCS-SUB-4 variant. Mounts to D1-D4 modules and all DCS800-EP drives.
SECG-01	EtherNet to ControlNet gateway	EtherNet/IP to ControlNet will allow a DriveBrowser user to connect a PC's EtherNet port to drives on a ControlNet network.
SEDG-01	EtherNet to DeviceNet gateway	EtherNet/IP to DeviceNet will allow a DriveBrowser user to connect a PC's EtherNet port to drives on a DeviceNet network.
TERMINAL SHIELD	Terminal shield	This safety terminal shield protects against accidental contact with the AC and DC terminals at the base of the drive. See Hardware Manual Mechanical Installation for details. One shield per drive.

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