

TECHNICAL NOTE

Drive Services

New improved long-life fans for LV AC drives



Long-life fans were developed based on customers requirement of a longer fan change interval.

It is recommended to replace long-life fan every 9 years, in accordance to drive's specific preventive maintenance schedule.

— The improved fans are specified with a type code and long-life marking.

Fans in LV AC drives

A fan in a low voltage AC drive ensures cooling in a drive unit. Optimum cooling means that operational capability and reliability can be guaranteed. The cooling ability of a fan decreases when components like bearings begin to wear out.

Eco-friendly and compliant

ABB follows relevant standards and introduces solutions accordingly. ABB only uses eco-friendly ErP-approved fans in its LV AC drives in order to help drive owners reduce their energy costs and carbon footprint without incurring excessive costs.

Specification

The improved fans are specified with a type code and long-life marking. The fans are specified for an operational point with the L10 bearing life principle and an ambient temperature of 35 °C.

Preventive Maintenance schedule

It is recommended to replace long-life fan every nine years after its installation, in accordance to drive's specific preventive maintenance schedule.

The replacement of new long-life fan is done along with other components' scheduled replacements, thus the frequency of components' replacement actions is reduced throughout a drive's lifetime.

ABB's Preventive Maintenance (PM) schedules provide detailed guidelines to replace wearing components proactively and avoid unplanned shutdowns. Now in these PM schedules it is possible to find specified maintenance tasks for long-life fans.

Product families

The improved fans can be implemented in the following product families:

- ACSM1
- ACS580
- ACS800
- ACQ810
- ACS850
- ACS880
- ACS600

ABB long-life fan item codes for LV AC drives (Stock Keeping Unit)

Current ABB Code	New descriptions	Previous type	New type code
10030820	LONG-LIFE FAN, CENTRIFUGAL	D4E225-CC01-39	D4E225-CC01-56
10030668	LONG-LIFE FAN, CENTRIFUGAL	D4E225-CC07-37	D4E225-CC07-37
68870674	LONG-LIFE FAN, CENTRIFUGAL	G2E140-PI32-43	G2E140-PI32-43
10032971	LONG-LIFE FAN, CENTRIFUGAL	G2E140-PI32-10	G2E140-PI32-10
68502926	LONG-LIFE FAN, RADIAL	R2E225-BD40-21	R2E225-BD40-65
3AXD50000025440	LONG-LIFE FAN, RADIAL	R3G190-RC05-03	R3G190-RC05-34
3AXD50000000592	LONG-LIFE FAN, RADIAL	R3G225-RD05-03	R3G225-RH17-23
10005019	LONG-LIFE FAN, AXIAL	W2E143-AA09-01	W2E143-AA09-93
59023373	LONG-LIFE FAN, AXIAL	W2E143-AA15-01	W2E143-AA15-94
10012171	LONG-LIFE FAN, AXIAL	W2E200-HH38-06	W2E200-HH38-06
10032300	LONG-LIFE FAN, AXIAL	W2E200-HH86-14	W2E200-HH86-14
3AUA0000125508	LONG-LIFE FAN, AXIAL	W2E250-HL06-21	W2E250-HL06-21
3AXD50000025970	LONG-LIFE FAN, AXIAL	W2E250-HJ32-01	W2E250-JH32-18
3AXD50000000514	LONG-LIFE FAN, RADIAL	R2E225-RA92-17	R2E225-RA92-17
3AXD50000004019	LONG-LIFE FAN, CENTRIFUGAL	D2D160-CE02-16	D2D160-CE02-16
3AXD50000042302	LONG-LIFE FAN, CENTRIFUGAL	RF3D-146-180 K506 DSF-2326	D3G146-AB06-10
64337891	LONG-LIFE FAN, CENTRIFUGAL	D2E146-AP47-79	D2E146-AZ03-F9
3AUA0000059428	LONG-LIFE FAN, CENTRIFUGAL	D3G146-AH50-16	D3G146-AH50-16
68281334	LONG-LIFE FAN, CENTRIFUGAL	D2D160-CE02-12	D2D160-CE02-12
64650424	LONG-LIFE FAN, CENTRIFUGAL	D2D160-CE02-11	D2D160-CE02-11
3AUA0000083491	LONG-LIFE FAN, AXIAL	2410ML-05W-B69-EQ3	2410ML-05W-B69-EQB
3AUA0000088115	LONG-LIFE FAN, AXIAL	2410ML-05W-B79-EQ2	2410ML-05W-B79-EQ4
3AXD50000003619	LONG-LIFE FAN, AXIAL	MPN 06025MA-24Q-FT-02	MPN 06025MA-24Q-FT-02
3AUA0000085511	LONG-LIFE FAN, AXIAL	D1751M24B8CP332	D1751M24B8CP332
3AUA0000077628	LONG-LIFE FAN, AXIAL	D1751S24B8CP353	D1751S24B8CP353
3AUA0000123668	LONG-LIFE FAN, AXIAL KIT	06025SA-24R-BU-D1	06025SA-24R-BU-D2
3AUA0000123669	LONG-LIFE FAN, AXIAL KIT	3115RL-05W-B66-EQ2	3115RL-05W-B66-EQ5
3AUA0000123670	LONG-LIFE FAN, AXIAL KIT	3615RL-05W-B46-EQ1	3615RL-05W-B46-EQ1
3AUA0000123674	LONG-LIFE FAN, AXIAL KIT	3615RL-05W-B76-EQ2	3615RL-05W-B76-EQ3
3AUA0000123676	LONG-LIFE FAN, AXIAL KIT	4715VL-05W-B76-EQ2	4715VL-05W-B76-EQ3
68625114	LONG-LIFE FAN, RADIAL	R2E190RA5016	R2E190-RA50-90
3AXD50000036608	LONG-LIFE FAN, RADIAL KIT	R8I CONTROLLED FAN	175 MM FAN ASSEMBLY
3AXD50000028422	LONG-LIFE FAN, AXIAL	R8I PCB FAN	PCB FAN
3AXD50000179343	LONG-LIFE FAN, RADIAL KIT	R4E355-RM03-05	R3G355-RB03-10
3AXD50000422975	LONG-LIFE FAN, CENTRIFUGAL KIT	R2E225-RA92-17	R3G225-RE07-25

For more information on life cycle management for drives and available services, contact your local ABB representative or visit:

new.abb.com/drives/services

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB AG does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB AG. Copyright© 2017 ABB
All rights reserved