

NEW UTILIZATION CATEGORY AC-3E

AF09...AF190 3-pole contactors

For premium-efficiency motors

ABB has designed AF contactors AF09...AF190 to match the latest requirement for IE3 and IE4 premium-efficiency motor applications, with the latest utilization category AC-3e.

The world is facing a severe energy challenge. Electricity demand will grow faster than any other form of final energy. It is estimated that roughly 70 % of electricity is consumed by electric motor systems used in the industry. By 2040, the demand for electric motion will double. By using more efficient motors, it would be possible to realize considerable energy and carbon dioxide emissions savings. This demand has prompted governments to introduce MEPS (Minimum Energy Performance Standards), setting mandatory minimum efficiency levels for electric motors.



Ready for IE3/IE4 motors

AF09...AF190 contactors have been designed to match the latest requirement (with the utilization category AC-3e) for IE3 and IE4 premium-efficiency motor applications.



Rated operational current

The same rated operational current and rated operational power (up to 690V) are listed below for both AC-3 and AC-3e utilization category.



Technical information

AC-3/AC-3e

I_e/max rated operational current (A) θ ≤ 60 °C

	AF09	AF12	AF16	AF26	AF30	AF38	AF40	AF52	AF65	AF80	AF96	AF116	AF140	AF146	AF190
220-230-240V	9	12	18	26	33	40	40	53	65	80	96	116	140	146	190
380-400V	9	12	18	26	32	38	40	53	65	80	96	116	140	146	190
415V	9	12	18	26	32	98	40	53	65	80	96	116	140	146	190
440V	9	12	18	26	32	38	40	53	65	80	96	116	140	146	190
500V	9.5	12.5	15	23	28	33	35	45	55	65	80	110	130	130	156
690V	7	9	10.5	17	21	24	25	35	39	49	57	65	80	93	135
1000V	-	-	-	-	-	-	-	-	-	25	30	-	-	60/54	85

AC-3/AC-3e

Rated operational power (kW) θ ≤ 60 °C

	AF09	AF12	AF16	AF26	AF30	AF38	AF40	AF52	AF65	AF80	AF96	AF116	AF140	AF146	AF190
220-230-240V	2.2	3	4	6.5	9	11	11	15	18.5	22	25	30	37	45	55
380-400V	4	5.5	7.5	11	15	18.5	18.5	22	30	37	45	55	75	75	90
415V	4	5.5	9	11	15	18.5	22	30	37	45	55	55	75	75	90
440V	4	5.5	9	15	18.5	22	22	30	37	45	55	75	90	90	110
500V	5.5	7.5	9	15	18.5	22	22	30	37	45	55	75	90	90	110
690V	5.5	7.5	9	15	18.5	22	22	30	37	45	55	55	75	90	132
1000V	-	-	-	-	-	-	-	-	-	35	40	-	-	75	110

This offer will help you upgrade to premium-efficiency motors with current AF contactors.

Select them here: <https://www.lowvoltage-tools.abb.com/soc>

—
ABB France
Electrification Business
Low Voltage Products and Systems
 2 rue d'Arsonval
 F-69687 Chassieu cedex / France

—
ABB STOTZ-KONTAKT GmbH
Electrification Business
Low Voltage Products and Systems
 Eppelheimer Straße 82
 D-69123 Heidelberg / Germany

—
ABB Electrification Sweden AB
Motor Starting and Safety
 SE-721 61 Västerås / Sweden

Additional information

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 2021 ABB. All rights reserved. Specifications subject to change without notice.