

Oil, Grease, and Gear Boxes

For Type AK/AKR Low-voltage Power Circuit Breakers

393A991P1 OIL

For use in gear boxes of all motor-operated Type AK circuit breakers.

393A991P2 SILICONE OIL

For use only in obsolete, oil-displacement type, time-delay under-voltage devices on Type AK circuit breakers. It is **not** suitable for overcurrent trip devices of these breakers—see note below.

NOTE: Oil is not furnished for Type EC overcurrent trip devices of Type AK air circuit breakers because these devices are sealed at the factory. If device does not operate properly it should be replaced or repaired by a local Service Shop or Installation and Service Engineering unit.

193A1751P1 LUBRICATING GREASE

A specially formulated grease for high contact pressures and high temperatures. It is recommended for lubricating primary disconnects of drawout power circuit breakers.

Individual instruction books cover the lubrication of parts and call for this lubricant where required.

This lubricant, which is identified as D50HD38, supersedes D50H15 and D50H47 lubricants.

PRICING INFORMATION

Material Number	Quantity	List Price, GO-129A	Approx Shipping Wt
393A991P1 Oil	4 oz bottle	\$ 4.20 each	1 lb
393A991P2 Oil	1/4 oz bottle	15.00 each	1 lb
193A1751P1	1 oz tube	★30.00 each	4 oz

HOW TO ORDER

Order by material number and specify quantity.

GEAR BOXES

175L316 and 177L362 gear boxes are no longer manufactured for AK-50, 75, 100 breakers. A modification of the AKR design electrical closing assembly is available to replace these units. The replacement unit will include a new closing motor. Select replacement for

175L316 G1 or G2 gear box from Column 1. Replacements for 177L362 G2 should be selected from Columns 1 to 4, for G3 select from Columns 5 to 8.

REPLACEMENT KIT CAT. NO. 343L761 (Select Group Number Below)*									
Column		Conventional Close Type				Quick Close Type			
Volts	Hertz	1	2	3	4	5	6	7	8
		AK-1-50, 75, 100 AK-2-50, 75, 100 AK-3-50, 75, 100 Includes AKU	AK-2A-50 AK-3A-50 Includes AKU	AKT-2A-50 AKT-3A-50	AK-2A-75, 100 AK-3A-75, 100	AK-2-50, 75, 100 AK-3-50, 75, 100 Includes AKU	AK-2A-50 AK-3A-50 Includes AKU	AKT-2A-50 AKT-3A-50	AK-2A-75, 100 AK-3A-75, 100
48	DC	G37	G49	G61	G37	G28	G49	G61	G37
125	DC	G38	G50	G62	G38	G29	G50	G62	G38
250	DC	G39	G51	G63	G39	G30	G51	G63	G39
120	60	G40	G52	G64	G40	G31	G52	G64	G40
208	60	G44	G56	G68	G44	G34	G56	G68	G44
240	60	G43	G55	G67	G43	G34	G55	G67	G43
120	50	G41	G53	G65	G41	G32	G53	G65	G41
208	50	G46	G58	G70	G46	G35	G58	G70	G46
240	50	G45	G57	G69	G45	G35	G57	G69	G45

* List Price for Cat. No. 343L761—Replacement Kit is \$3000 each, GO-129A.

GENERAL ELECTRIC

D50HD38

DATA FOR ORDERING

1st Issue

SYNTHETIC LUBRICATING GREASE

Page 1 of 1 Pages

Superbiding Issue of

Date 3/26/76

GE Material D50HD38 identifies a synthetic lubricating grease.

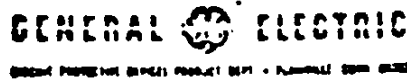
The Materials Services Department should furnish suppliers with copies of Specification D50HD38.

Orders for this material should be written in the following form:

Material Name - Synthetic lubricating grease
Designation - GE Material D50HD38
Specification - D50HD38S1
Quantity -

The approved source of supply for G.E. Material D50HD2 is:

<u>G.E. Designation</u>	<u>Manufacturer</u>	<u>Manufacturer's Designation</u>
D50HD38	Product Department Mobil Oil Corp. 150 East 42nd St. New York, N.Y. 10017 (212) 883-2630	Mobilgrease #28



D50HD38

PROPERTIES

SYNTHETIC LUBRICATING GREASE

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1st Issue

Date 3/26/76

Superseding Issue of

GE Material D50HD38 identifies synthetic lubricating grease manufactured from a synthetic hydrocarbon fluid and a non-soap thickness. It is used for lubrication of worm gears, and other mechanisms where high friction reduction, low wear, and low lubricant friction losses are required.

PROPERTIES:

Color-----	Dark Red
NLGI Grade-----	Between #1 & #2
Use Temperature-----	-65°F to +350°F
Thickener Type-----	Non-soap
Fluid Type-----	Synthetic Hydrocarbon
Penetration at 77°F-----	(265-320 when worked 60 times (10% change when worked 100,000 times
Dropping Point, °F-----	500°F
Rust Test-----	Pass
Load Wear Index-----	40
Corrosion to Copper at 210°F-----	Negative
Water Resistance, % Washout at 150°F-----	5
Evaporation, 22 Hours at 350°F-----	7.0%
Oil Separation, 30 Hours at 350°F-----	3.9%
Rubber Swell, 1 Type Synthetic, 1 Week --	8%

REFEREE METHODS:

Dropping Point-----	ASTM-D566, 1P132
Rust Test-----	ASTM-D1743
Water Resistance-----	ASTM-D1264
Evaporation-----	ASTM-D972
Rubber Swell-----	ASTM-D471

Grease shall meet Specification MIL-G-81322A.

REVISION